

1 GGGGAGATGT TGAAGTTCAA ATATGGAGCG CGGAATCCTT TGGATGCTGG
 51 TGCTGCTGAA CCCATTGCCA ACCGGGCCTC CAGGCTGAAT CTGTTCTTC
 101 AGGGGAAACC ACCCTTTATG ACTCAACAGC AGATGTCTCC TCTTCCC
 151 GAAGGGATAT TAGATGCCCT CTTTGTCTC TTTGAAGAAT GCAGTCAGCC
 201 TGCTCTGATG AAGATTAAGC ACGTGAGCAA CTTTGTCCGG AAGTATTCCG
 251 ACACCATAGC TGAGTTACAG GAGCTCCAGC CTTCGGCAAA GGACTTC
 301 GTCAGAAGTC TTGTTAGGTTG TGGTCACTTT GCTGAAGTGC AGGTGGTAAG
 351 AGAGAAAGCA ACCGGGGACA TCTATGCTAT GAAAGTGATG AAGAAGAAGG
 401 CTTTATTGGC CCAGGAGCAG GTTTCATTTT TTGAGGAAGA GCGGAACATA
 451 TTATCTCGAA GCACAAGCCC GTGGATCCCC CAATTACAGT ATGCCTTC
 501 GGACAAAAAT CACCTTTATC TGGTCATGGA ATATCAGCCT GGAGGGGACT
 551 TGCTGTCACT TTTGAATAGA TATGAGGACC AGTTAGATGA AAACTGATA
 601 CAGTTTTACC TAGCTGAGCT GATTTTGGCT GTTCACAGCG TTCATCTGAT
 651 GGGATACGTG CATCGAGACA TCAAGCCTGA GAACATTCTC GTTGACCGCA
 701 CAGGACACAT CAAGCTGGTG GATTTTGGAT CTGCCGCGAA AATGAATTCA
 751 AACAAAGATGG TGAATGCCA ACTCCCGATT GGGACCCAG ATTACATGGC
 801 TCCTGAAGTG CTGACTGTGA TGAACGGGA TGGAAAAGGC ACCTACGGCC
 851 TGGACTGTGA CTGGTGGTCA GTGGGCGTGA TTGCCTATGA GATGATTAT
 901 GGGAGATCCC CCTTCGCAGA GGGAACCTCT GCCAGAACCT TCAATAACAT
 951 TATGAATTTC CAGCGGTTTT TGAAATTTC AGATGACCCC AAAGTGAGCA
 1001 GTGACTTTCT TGATCTGATT CAAAGCTTGT TGTGCGGCCA GAAAGAGAGA
 1051 CTGAAGTTTG AAGGTCTTGT CTGCCATCCT TTCTTCTCTA AAATTGACTG
 1101 GAACAACATT CGTAACTCTC CTCCCCCCTT CGTTCCCACC CTCAAGTCCG
 1151 ACGATGACAC CTCCAATTTT GATGAACCG AGAAGAATTG GTGGGTTTCA
 1201 TCCCTCTCCGT GCCAGCTGAG CCCCTCAGGC TTCTCGGGTG AAGAACTGCC
 1251 GTTTGTGGGG TTTTCGTACA GCAAGGCCT GGGGATTCTT GGTAGATCTG
 1301 AGTCTGTTGT GTCGGGTCTG GACTCCCCTG CCAAGACTAG CTCCATGGAA
 1351 AAGAAAATTC TCATCAAAG CAAAGAGCTA CAAGACTCTC AGGACAAGTG
 1401 TCACAAGGTA TTTATTTCCG CAGCCGGCCT CTTTCTTGC TCCAGGATCC
 1451 TCCCCTCGT ATATGCCAAG GGATCCGCC GGGGCCGCTG CTGGCTCTGA
 1501 GCCGCCTGAT CCGTA

(SEQ ID NO: 1)

FEATURES:

5'UTR: 1 - 6
 Start Codon: 7
 Stop Codon: 1498
 3'UTR: 1501

Homologous proteins:

Top 10 BLAST Hits:

| | | Score E |
|--|-----|--------------|
| | | (bits) value |
| Sequences producing significant alignments: | | |
| CRA 18000005168810 /altid=gi 3599507 /def=gb AAC72822.1 (AF086... | 888 | 0.0 |
| CRA 18000005168811 /altid=gi 3599509 /def=gb AAC72823.1 (AF086... | 850 | 0.0 |
| CRA 18000005161385 /altid=gi 3360512 /def=gb AAC27932.1 (AF070... | 844 | 0.0 |
| CRA 18000005075416 /altid=gi 7505496 /def=pir T25808 hypotheti... | 352 | 7e-96 |
| CRA 89000000196974 /altid=gi 7294566 /def=gb AAF49906.1 (AE003... | 347 | 1e-94 |
| CRA 18000005236627 /altid=gi 5174413 /def=ref NP_006026.1 CDC4... | 346 | 4e-94 |
| CRA 335001098689373 /altid=gi 11433630 /def=ref XP_007257.1 CD... | 346 | 4e-94 |
| CRA 18000005123191 /altid=gi 7446379 /def=pir T14039 protein k... | 343 | 3e-93 |
| CRA 18000005057611 /altid=gi 4505831 /def=ref NP_003598.1 ser... | 342 | 6e-93 |
| CRA 18000005067765 /altid=gi 7495847 /def=pir T25539 hypotheti... | 340 | 2e-92 |

FIGURE 1A

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Serial No.: TO BE ASSIGNED
Inventors: Marion WEBSTER et al.
Title: ISOLATED HUMAN KINASE ...

EST:

Sequences producing significant alignments:

gi|11292270 /dataset=dbest /taxon=96...
gi|11369862 /dataset=dbest /taxon=96...
gi|12111020 /dataset=dbest /taxon=96...
gi|12362084 /dataset=dbest /taxon=96...
gi|12349935 /dataset=dbest /taxon=96...

Score E
(bits) value
630 e-178
615 e-173
517 e-144
492 e-136
492 e-136

FIGURE 1B

Docket No.: CL001164DIV II
Serial No.: TO BE ASSIGNED
Inventors: Marion WEBSTER et al.
Title: ISOLATED HUMAN KINASE ...

EXPRESSION INFORMATION FOR MODULATORY USE:

gi|11292270 Brain- glioblastoma
gi|11369862 Uterus tumor
gi|12111020 Colon
gi|12362084 Nervous- normal
gi|12349935 Nervous- tumor

Tissue Expression:

Pooled tissues

FIGURE 1C

1 MLKFKYGARN PLDAGAAEPI ANRASRLNL FQGKPPFMTQ QQMSPLSREG
51 ILDALFVLFE ECSQPALMKI KHVSNFRKY SDTIAELQEL QPSAKDFEV
101 SLVGCGHFAE VQVVREKATG DIYAMKVMKK KALLAQEQVS FFEEERNILS
151 RSTSPWIPQL QYAFQDKNHL YLVMNEYQPGG DLLSLLNRYE DQLDENLIQF
201 YLAELILAVH SVHLMGYVHR DIKPENILVD RTGHIKLVDF GSAAKMNSNK
251 MVNAKLPIGT PDYMAPEVLT VMNGDGKGTY GLDCDWWSVG VIAYEMIYGR
301 SPFQAEGTSAR TFNNIMNFQR FLKFPDDPKV SSDFLDLIQS LLCGQKERLK
351 FEGLCCHPFF SKIDWNNIRN SPPPFPVPTLK SDDDTSNFDE PEKNSWVSSS
401 PCQLSPSGFS GEELPFVGFS YSKALGILGR SESVVSGLDS PAKTSSMEKK
451 LLIKSKELEQD SQDKCHKVFI SAAGLLPCSR ILPSVYAKGS ARGRCWL
(SEQ ID NO:2)

FEATURES:

Functional domains and key regions:

Prosite results:

[1] PDOC00004 PS00004 CAMP_PHOSPHO_SITE
CAMP- and cGMP-dependent protein kinase phosphorylation site

78-81 RKYS

--
[2] PDOC00005 PS00005 PKC_PHOSPHO_SITE
Protein kinase C phosphorylation site

Number of matches: 5

| | | |
|---|---------|-----|
| 1 | 93-95 | SAK |
| 2 | 248-250 | SNK |
| 3 | 308-310 | SAR |
| 4 | 490-492 | SAR |
| 5 | 378-380 | TLK |

--
[3] PDOC00006 PS00006 CK2_PHOSPHO_SITE
Casein kinase II phosphorylation site

Number of matches: 9

| | | |
|---|---------|------|
| 1 | 83-86 | TIAE |
| 2 | 93-96 | SAKD |
| 3 | 140-143 | SFFE |
| 4 | 361-364 | SKID |
| 5 | 381-384 | SDDD |
| 6 | 386-389 | SNFD |
| 7 | 410-413 | SGEE |
| 8 | 436-439 | SGLD |
| 9 | 445-448 | SSME |

--
[4] PDOC00008 PS00008 MYRISTYL
N-myristoylation site

Number of matches: 3

FIGURE 2A

Docket No.: CL001164DIV II
Serial No.: TO BE ASSIGNED
Inventors: Marion WEBSTER et al.
Title: ISOLATED HUMAN KINASE ...

1 50-55 GILDAL
2 474-479 GLLPCS
3 489-494 GSARGR

[5] PDO00100 PS00107 PROTEIN_KINASE_ATP
Protein kinases ATP-binding region signature

103-126 VGC GHFAEVQVVREKATGDIYAMK

[6] PDO00100 PS00108 PROTEIN_KINASE_ST
Serine/Threonine protein kinases active-site signature

217-229 YVHRDIKPENILV

Membrane spanning structure and domains:

Candidate membrane-spanning segments:

| Helix | Begin | End | Score | Certainty |
|-------|-------|-----|-------|-----------|
| 1 | 197 | 217 | 0.789 | Putative |
| 2 | 467 | 487 | 0.714 | Putative |

FIGURE 2B

Docket No.: CL001164DIV II
Serial No.: TO BE ASSIGNED
Inventors: Marion WEBSTER et al.
Title: ISOLATED HUMAN KINASE ...

BLAST Alignment to Top Hit:
Alignment to top blast hit:

>CRA|18000005168810 /altid=gi|3599507 /def=gb|AAC72822.1|
(AF086823)
rho/rac-interacting citron kinase short isoform [Mus
musculus] /org=Mus musculus /taxon=10090
/dataset=nraa
/length=494
Length = 494

Score = 888 bits (2270), Expect = 0.0
Identities = 432/495 (87%), Positives = 459/495 (92%)
Frame = +1

Query: 7
MLKFKYGARNPLDAGAAEPIANRASRLNLFFQGKPPFMTQQQMSPLSREGILDALFVLFE 186
MLKFKYG RNP +A A+EPIA+RASRLNLFFQGKPP MTQQQMS LSREG+LDALF LFE
Sbjct: 1 MLKFKYGVRNPPEASASEPIASRASRLNLFFQGKPPLMTQQQMSALSREGMLDALFALFE 60

Query: 187 ECSQPALMKIKHVSNFVRKYSDTIAELQELQPSAKDFEVRSVLVCGGHFAEVVVREKATG 366
ECSQPALMK+KHVS+FV+KYSDTIAEL+ELQPSA+DFEVRSVLVCGGHFAEVVVREKATG
Sbjct: 61 ECSQPALMKMKHVSSFVQKYSDTIAELRELQPSARDFEVRSVLVCGGHFAEVVVREKATG 120

Query: 367 DIYAMKVMKKALLAQEVSFFEEERNILSRSTSPWIPQLQYAFQDKNHLYLVMEYQPGG 546
D+YAMK+MKKKALLAQEVSFFEEERNILSRSTSPWIPQLQYAFQDKN+LYLVMEYQPGG
Sbjct: 121 DVYAMKIMKKALLAQEVSFFEEERNILSRSTSPWIPQLQYAFQDKNNLYLVMEYQPGG 180

Query: 547 DLLSLLNRYEDQLDENLIQFYLAELLILAVHSVHLMGYVRDIKPENILVDRTHIKLVDF 726
D LSLLNRYEDQLDE++IQFYLAELLILAVHSVH MGYVVRDIKPENIL+DRTG IKLVDF
Sbjct: 181 DFLSLLNRYEDQLDESMIQFYLAELLILAVHSVHQMGYVRDIKPENILIDRTGEIKLVDF 240

Query: 727 GSAAKMNSNKMVNALKPIGTPDYMAPEVLTVMNGDGKGTYGLDCDWWSVGVIAYEMIYGR 906
GSAAKMNSNK V+AKLPIGTPDYMAPEVLTVMN D +GTYGLDCDWWSVGV+AYEM+YG+
Sbjct: 241 GSAAKMNSNK-VDAKLPPIGTPDYMAPEVLTVMNEDRRGTYGLDCDWWSVGVVAYEMVYGR 299

Query: 907 SPFAEGTSARTFNNIMNFQRFLKFPDDPKVSSDFLDLIQSLLCGQKERLKFEGLCCHPFF 1086
+PF EGTTSARTFNNIMNFQRFLKFPDDPKVSS+ LDL+QSLLC QKERLKFEGLCCHPFF
Sbjct: 300 TPFTEGTSARTFNNIMNFQRFLKFPDDPKVSSLELLQSLLCVQKERLKFEGLCCHPFF 359

Query: 1087 SKIDWNNNIRNSPPPFVPTLKSDDDSNFDEPEKNNSWSSSPCQLSPSGFSGEELPFVGFS 1266
++ DWNNNIRNSPPPFVPTLKSDDDSNFDEPEKNNSW P FSGEELPFVGFS
Sbjct: 360 ARTDWNNNIRNSPPPFVPTLKSDDDSNFDEPEKNNSWAFILCVPAEPLAFSGEELPFVGFS 419

Query: 1267 YSKALGILGRSESVVSGLDSPAKTSSMEKLLIKSKELQDSQDKCHKVFISAAGLLPCSR 1446
YSKALG LGRSESVVS LDSPAK SSMEKLLIKSKELQDSQDKCHKV IS AGL PCSR
Sbjct: 420 YSKALGILGRSESVSSLDSPAKVSSMEKLLIKSKELQDSQDKCHKVSIAGLRPCSR 479

QuerySIYAEGSAGGHC 494 (SEQ ID NO:4)
: 1447 ILPSVYAKGSARGRC 1491
IL S+YA+GSA G C
Sbjct: 480 ILQ

FIGURE 2C

Docket No.: CL001164DIV II
Serial No.: TO BE ASSIGNED
Inventors: Marion WEBSTER et al.
Title: ISOLATED HUMAN KINASE ...

Hmmer search results (Pfam):

Scores for sequence family classification (score includes all domains):

| Model | Description | Score | E-value | N |
|---------|--|--------|---------|---|
| PF00069 | Eukaryotic protein kinase domain | 219.4 | 5.5e-62 | 1 |
| CE00022 | CE00022 MAGUK_subfamily_d | 28.0 | 3.5e-08 | 1 |
| CE00359 | E00359 bone_morphogenetic_protein_receptor | 21.4 | 2.4e-05 | 1 |
| PF00433 | Protein kinase C terminal domain | 15.4 | 0.0018 | 1 |
| CE00287 | CE00287 PTK_Eph_orphan_receptor | -56.4 | 0.00012 | 1 |
| CE00292 | CE00292 PTK_membrane_span | -91.3 | 0.0013 | 1 |
| CE00291 | CE00291 PTK_fgf_receptor | -110.8 | 0.021 | 1 |
| CE00286 | E00286 PTK_EGF_receptor | -122.6 | 0.0015 | 1 |
| CE00290 | CE00290 PTK_Trk_family | -180.0 | 0.0073 | 1 |
| CE00016 | CE00016 GSK_glycogen_synthase_kinase | -201.8 | 1.8e-05 | 1 |

FIGURE 2D

Docket No.: CL001164DIV II
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Inventors: Marion WEBSTER et al.
Title: ISOLATED HUMAN KINASE ...

Parsed for domains:

| Model | Domain | seq-f | seq-t | hmm-f | hmm-t | score | E-value |
|---------|--------|-------|--------|-------|--------|--------|---------|
| CE00359 | 1/1 | 219 | 269 .. | 274 | 327 .. | 21.4 | 2.4e-05 |
| CE00022 | 1/1 | 218 | 316 .. | 143 | 238 .. | 28.0 | 3.5e-08 |
| CE00292 | 1/1 | 97 | 341 .. | 1 | 288 [] | -91.3 | 0.0013 |
| CE00290 | 1/1 | 99 | 341 .. | 1 | 282 [] | -180.0 | 0.0073 |
| CE00286 | 1/1 | 96 | 341 .. | 1 | 263 [] | -122.6 | 0.0015 |
| CE00291 | 1/1 | 97 | 341 .. | 1 | 285 [] | -110.8 | 0.021 |
| CE00287 | 1/1 | 97 | 358 .. | 1 | 260 [] | -56.4 | 0.00012 |
| PF00069 | 1/1 | 97 | 360 .. | 1 | 278 [] | 219.4 | 5.5e-62 |
| PF00433 | 1/1 | 361 | 390 .. | 1 | 32 [.] | 15.4 | 0.0018 |
| CE00016 | 1/1 | 38 | 438 .. | 1 | 433 [] | -201.8 | 1.8e-05 |

FIGURE 2E

1 TACACCTAGC AATAGTCATA GAATGCACAA ATCTTCAATG TTAGCAAATA
51 ATGCCAAACT TTTTTTCAA ATTTCAAAGA GATTGTATCC ATTTACACGC
101 CTACGGGTAC TGTATAAGTG TGTGTACTTC CACATCTTCG CAAACACTGT
151 CACATCCTTT TGTTGTTGTT GTTCTGAAT TTGAGTGTAA TTCTTTCTCA
201 CTGTGACTTT ATTTTCATA TTTTCTGATT ATGAACGAGG TTGACAACCTT
251 TCACACATTG GTTGGTCATC TGGATTTCCT TTTTGGTGA GTGCCTGTTT
301 AAGTATCTCG TCTATAATT ATTAAAAGT GTCCTTCAG ACAGTCTCAA
351 TGAUTGTCAAC CAACTCCTTG CAGGGCAGTC AGCCCCGGAGA TAGAGTAATC
401 AAGGTAGGTT GAAGTCAAGC TCAAAACATT CGCTGCCTCA GCTGTAGCAG
451 AGGACCACTG GGCTCCCCA GGTAACAAGT ACTTCTACCT TAGCCACATG
501 AGAGAGAAAG AAGACCAGGC AGAGCAGCCT GGCTGCCTC CTCCCTGCAG
551 GTGGCCGAGA GCAGGGGACA GCGCCCTGGC GACCTCCTCA GGGATCCTAG
601 ATTAACAGTC GCGTCCTCAA ACGCAGCATC CTGCGTAACC GCCAATTTC
651 AACTTCCAAG ACCTGCCCTG CTGATTTCGC CTTCCCTTT TTCCCGTTGG
701 TCGCGAGTCA AAGGAAGATG CAATTGATT GGCTCTCCCC TTCACTTTCC
751 TCCATGCCTT TAGGGACATG GGCAGGGCCT GGCTGAGACG CCCATGTCTA
801 TCATAGGAGC GGAGACGCTG ATTGGTCAA ACACGGCTGA GACCCGCCCC
851 CGCCGTTCTC CGGGTTCAA CGCGGCGCG GGAGGCGCGG GGCGAACAG
901 ATCGCAGACC TGGGGGTTCG CAGAGCTGA GTCTGATCCC CCAGACCCAA
951 TTCTACCGCA CCCGGCTCTG CAAGGCCAGG GGAGGGCAGC CTCCACCCAT
1001 ACAAGTCCCC GGTTCCCTC CCGCCCCGGG GAGGGCAGCAG ATTCCACCCC
1051 CAGGGCTGCG GGAGGCCTGG AGGGTCTTCC GGGGCTAGCT GTGCGCGCG
1101 CCACCTTCCT TGGGAGCCGA GGGGTCAAGC GAGTGGTGT GGGGCAGGAG
1151 GCTTGCTCCT CCCCTAAACC AGGCGGAGTG CTTTGTCTCT TCAGCTCTGC
1201 CTCTGTCACT CACTAACTGC ATTATTCTGC CCAGTGTAGT CGGCCGGTTC
1251 CTTATTATCT GCGTGAACCT AGCCATTTC TTAACCTCTC TGTTTCAGCG
1301 TATTCACTACC CCGTGCCAC CCCATCACCT CATGATGCC CCGCCTCTTT
1351 CGCTCTGCTC CAGTCCGCTC GGCCTCGCTG TTGCTGGAGA GGCCAGGTCC
1401 TGCCCTAGTG CTTTGGCTT GGCTGTTCG TTTGCCACGG ATGTCCTTCT
1451 TTCCCCAGAT ATCAACATGG CTTGCTGGTC ATTGCTTCA GGTCTTCAAG
1501 TCTTGGGTCA AATGGTGGCT TCTCAGTGA GTCTTATTG ACCACACTAA
1551 AAATTGCACC ATCTCACCCC CATTGTCCTT TTCTTGTCTG ATTGTTGTTT
1601 TACCCCATAG CACTTAACAC CTTACAACAA GCTATATATT TTGCTTATT
1651 CAGTCATTCA TTTAATAACT ATTGCACTC ATTGTTGTGC CAGGCTATGT
1701 GTGCCCCAC TGCACTGGGG CAAACATCTC TGCCCTTG GAGCTTCCAT
1751 TCTAAGGGGG GAGATAATAA ACACATTAT AAGTAAGAGA GTATGTCAAGA
1801 TAAGTGTATC ATCTCTGTC ACAGTGTAGTT AAAATCTGGT GTTTAATCTC
1851 CATGATTAGA CTGAGCTTCC TAAAACGTGA GTGGTAGCTG ATTTCACCT
1901 CCTTGTCCT GATATCTTGA GGGAGATCAG GATCTCTCAG GCCCTTCCTG
1951 CTCAAAACAT AGGACACACT TGACTTTCT GATATCCTT CAGCGCCAGT
2001 GGGGAGATGT TGAAGTTCAA ATATGGAGCG CGGAATCCTT TGGATGCTGG
2051 TGCTGCTGAA CCCATTGCCA GCCGGCCTC CAGGCTGAAT CTGTTCTTCC
2101 AGGTAAACAGC CTACCTGTC AACTTGTCTC ACCTGTGTGT GTCCTTGGAA
2151 TCTCCTTGTCA ACTCACCTT GCTTTTATT ATTGTTTTAT TTATTTAGAG
2201 TCTCAGTCTC TCAGGCTGGA GTACAGTGGT GCAATCTCAG CTCACTGCAA
2251 CCTCCGCCTC CTGGGTTCAA GCGATTCTCC TGCCTCAGCC TCCAGAGTAG
2301 CTGGGACTAC AGCCGCCTGC CACCACACCC GGCTAAATT TGTATTTTTC
2351 TTTTTAGTAG AGACGGGGTT TCACCATGTT GGCCAGGCTA GGGTCGAAC
2401 CCTGACCTCA AGTGAATCCAC CTGCCTTGGC CTCCTAAAGT GCTGGGATTA
2451 CAGGCATGAA CCGTGCCAG CTTGCTTTA TTATAGGACC AGGGATAATA
2501 TTTTAGGGGA AATTCTGTT TGTTTGTGAA GAAACAAGGT CTTCTGTGCA
2551 CTCTAGGCCT GTGCCACCAT GCCTGGCTAA TTGTTTAATT TTTGTAGGG
2601 ATGGGGTCTC ACTGTGTTGC CCAGGCTGAT ATAGAACACC TGACTTCAAG

FIGURE 3A

2651 TGAGCCTCTT GCCTTGGCCT CCCAAAGCAC TGGGGTTATA GGTGTGAGCC
2701 ACTGCACCTG GCCCTCTATT TAGAGTTTA TATGCACTGA TTCTTTGGA
2751 AAAAAGACAC TGTGAGAAG TAGATAGCTG AACTTGCTT AGAAGGGAGA
2801 TCTTTTCATA TTTCTCACAC TTTACACTTC TGTACTAAAG TTTATTCAATT
2851 CATTGATTGA TTGGTTGCTT GCAAGACAGG GTCTTGCTCT GTGGCTCAGG
2901 CTGGAGTGC A TTGGCACAAT CACGGCTTAC TGCAAGCTTG ACCTCCTGGG
2951 CTCAAACGAT CCTCCCACCT CAGCTTCTG AGTAGCTGG ACCACAGGTG
3001 TGTGCCACCA TACCTGGCTA ATTTTGTAT TTTTGTAGA GATGAGGTTT
3051 CACCATGTTG CCCAGGCAGG TCTCGAATT C TCTGGCTCAA GTGATCTACT
3101 TGTCAAGCT TCTGCAAGTG TTGGGCTTAC AGGCATAAGC CCCTGTACCA
3151 GGGCAAGTTT GTCCTTTAT TGAAGAAAAGA AAAATAAAATG AACAAAGATG
3201 CTTTTAAAAA CTACAAATTTC TGTGGGTATA ATCCTATTCA TTTTCATTGC
3251 AGGGATGTTT ATTTTTAAG ATTTTTTTT TTTTTTTTG AGACAGAGTC
3301 TTCGCTGTCG CCCAGGCTGG AGTGCAGTGG CGCGATCTG GCTCACTGCA
3351 GGCTCTGCC CCCGGGGTTC ACGCCATTCT CCTGCCTCAG CCTCCCACGT
3401 AGCTGGACT ACAGGCGCC C GTCACCTCGC CCGGCTAATT TTTTGTATTT
3451 TTAGTAGAGA CGGGGTTTCA CTGTGTTAGC CAGGATGGTA TTTTTTAAGA
3501 TTTTAAAAAA AGTTTGATG AATACCACAC CTGTTTAACC CTCATTCTC
3551 TCAAGATACA CATTCTGTC ACCCCAGATG CGTTAAAATC TAATATCATA
3601 AGATTACTTC CAAATAGATT TTTAATTCTT TTGTTTCTGA TGTATGTGGA
3651 ACACTGGTGA AGTAGAAATC CTTGTTGAT TTATGTATTC GTAAGTCAGG
3701 GGGACAATAG AGACCATGAA GATTTAGAAT TGAATCCCAG TCCCAGCACT
3751 AGTTAGCTGC ATTACTTTGG GTGAGTCAGT TACCTTTCT GAGTCCATT
3801 GCTATTCTT AAAATAGGTT GTAGCCTGTA ATGCCAGTAT TTTCGGAGGC
3851 TGAGGCGGGC GGATTACTTG AGGTACGGG TTCGAGACCA GCCTGGACAA
3901 CGTGGTGAAA CCCTGCTCT ACTAAAAATA TAGAAAATT TGAAGTCAG
3951 GTGGTCGCAT GTACCTGTAA TCCCAGCTAC TTGAAAAGCT GAAGCAGGAG
4001 AATCATTG A ACCGGGAGG CGGAGGTTGT CGTGAGCCGA GATGGTGAC
4051 TGCACTCCAG CCTGGGCGAC AGAGTGGTA AGACTCCATC TCAAAACAAA
4101 ACAAAACAAA AGAAAACAAA AAAATAACA TAGAGGTTGT AGTACCTAAT
4151 CCACAGGGTT GTTGTGAGGA TTAGATGAGA TATTGATTT AAAGCACTTA
4201 GCACCTTGCC TGGCTCTTAG TAAACTCCTT ATAAAAAAATG GTAATTATTG
4251 TTAATACTCA GCATAGAATA GTATTAGTTA TAATATTAAT ACTAAATTG
4301 TTTCTTAAT AGTAATTATA TTTGGGAAGG TAGTTATGTA GGATACCTGT
4351 AAGATGATGA ATGATGAAGT ATTCTTGATA ACTTTTTTT TTTTTCCAAA
4401 ATATTGGTAT TGGGTGTTA AACAGATGAG AGTGGAAACA AATTGAAAGC
4451 TTAGGTTTTT CTGTGGGACC ATCCCCATCA GCATTTTAAG TCTTGACATA
4501 TCTTCACAA ATGAATAGTC TGTCTTAAAC CTTAGATGGC TGGAGTGCTG
4551 CCACGTTCA GCCCTTTAT CATGCTACTT TAAAATATCT CCAACTTGCT
4601 GGGCGTGGTG GCTCACGCCT GTAATCCTAG CAATTGGGA GGCTGAGGTG
4651 GGTGGATTGC TTGAGGTCAG GAGTTGAGA GCAGCCCGGG CAACATGGTG
4701 AGCCCCCTCG TTTCTACTAA AACACAAAA AATAGCTGAC TGTGATGGTG
4751 TGTGCCCTGTA GTCCAGCTA CTCGGGAGGC TGAGGCAGGA GGATCACTTG
4801 AGCCCTAGAG GCAGAGGTTG CAGTGAGCTA AGATTGTGCC ACTGCACTTC
4851 AGCACTTCAG CCTAGGCGAC AGAGCAAGAC CCTGAAATT AAAAAAAAAA
4901 AAAAAAAAGAA AAGGAAAAAA ATTTCCAAT TATTAAGGGC TTATAGTGTG
4951 CTGATTATGT AATAGTTATG GCTTCCAATG TGTCTGGCAT AGAACTGGCA
5001 TGTCTCTGAG TATCTCACTT CAGCCTCATG ACAGAGGTAAGG GGACTATTTT
5051 TAATTTAAC TTTAAATAGG AGGCAACAGG CCAGGTGTGG TGGCTCACAC
5101 CTGTAATCCC AGTACTTTGG GAGGCTGAGG CAGGTGGATT GCTTGAGTCC
5151 AAGAGTTCAA GACTAGCCTG GGCAAAATGG TGAAACCCCA TCTCTACAAA
5201 AAATATAAAAT AATTAGTCAG GCATGGCGGT GTGTGCCTGT AGTCCCAGCT
5251 ACTCAGGAGG CTGAGGTGGG GGCATCTCTG GGGCCCCGGG GGCAGAGGTT

FIGURE 3B

5301 GTAGTGAGTT GAGATTGCAA CACTGCACTC CAGCCTGGGC AACAGAACGA
5351 GACCCTGTTT CTAATAAAT ACATAAATAG GAGGCAACAG ATATAGACAG
5401 ATATGGAGGT AGGTAAAGGC TTGCCCAAGA TCATACACGT TGGGTTTGC
5451 AGATGAGGCC AAGATCAGAC TCCATCTTG GTTGGTCTGA CTCCAAGGC
5501 TGACCAACATA GCCATTGGGC CACAGCACCT GTGCACGTCA GAATTATTAA
5551 AGTATATCTT GTATTTAGTC ATTATAACAG GAAGACTTAT GGGTAAACCC
5601 TCAGTTCATC TCTTTTAAT GCTGAGATCC CCTGCCCCAG TAAAGCTATT
5651 ATTGCAAGTA TAGTATATAAC CTATCATTTG CTTGAGTTA TCAGGTAAGG
5701 ATGCTGTTG TTCTTTCCC ATATAGTGCT GTTGAATGA GGTTGAGATA
5751 CAGTAGCAAT TTTGTTTCC ATTCAAGGTGA GTACCTTAGA CTGAGTGTCA
5801 TTTTGTCTTT TTTACTCTA CTCAACAGGA TTTCTGACA TGTTCGAGGT
5851 CAGTGATTGT CAGACTTTCT GAGCCAGCAA ATTTCCCAA ATTGCTGGGT
5901 AGACACAGGT TTTCCAACTT TTTATTTGC CAAGTAAGGA TATATAAAA
5951 AAAAATAAAA AGAAAGACCT ATTATTTCT GGCCCTTGTAA TTTCATAAAG
6001 GGCATTTAA GAAACAACAA GACAGGAAGA ACATCATCTC AGAATAAAGG
6051 ACCATTTTA AATTTGAATA CATTAGTTT TATAAAAAG ATATCATGTG
6101 GTTTCATTT TTTCTCATTT CACTGCAGGC TGTTGAAAAC TTTGTTAAGA
6151 ACCAGTACTA TATTTGGGAA CCCCTGCTTT AATTGATCTA AACTCTTGA
6201 GAATAGAAGA AACAAAGCAT TTTATTTTC TGAGTTACTG GCAACTATTA
6251 CTAAGTGAC AGATATGGTG GCCTGAATG CAGTGTCTCC CAAACCTGAT
6301 TGAGGTCTGA CTCTCTGGG GACCAGGGTC TCATTCTGTT GCCCAGGCTG
6351 GAGTGTGGCA GCACAATCTT GGCTCACTGC AGCCTTACT TCTTGGGCTC
6401 AAGTGTACCT TCTACCTCAG TCTCACAAGT GGCTAGGACT ACAGGACCAT
6451 GGCACATACAC CTGGCTAATT TTTTTGTT TGTTGTAGA GATGGGATCT
6501 CGCTGTGTTG CCCTGGCTGG TCTTGAACTC CTGGGCTCAA GTGATCCTCC
6551 CACCTTGGCC TCCCCAAAGTG CTAGTATTCC AGGTGTGAGC CACCTCTCCC
6601 TGCTGGGAA CTTGTTAATA AAACAGATT TAGGCTACAG TCTGGAAAAT
6651 TCTAATTCAT TTGGTTGTGG GGGAGGGGG CATAGGACCA GAGAATGTGT
6701 TTGTTTGTTT GTTTGTTTT CTTAAATTCT CCAGTGTCTGT TGTGATTCAA
6751 ATGCAGCCGG TCTGTTCTG TTATCAAGTG CTGTGTAACA AAGCACTCAC
6801 AAAGTTAAA GCAACAATGA TTTATTTT CTTAGGATTC TGTGGGTTGG
6851 CTGGACTCAG CTAGGTAGTT CTGCTTCATC CTGTGATGTC AGCTGGGTC
6901 ACTTGTGGGG CTACATTCTG CTGGGATTAT GTCTGGGACT GGAACATGTG
6951 GGTGCTGACT GCTGGCTGG GCACCTTAGT GTTCTCACA TGGCCTCTCT
7001 TCTCCATGAG GTCTTCAGT AGTATAGCCC AGGACTCGTA ACTTTTTT
7051 TTTTTTTAAG ACAGACTGTC GCCCTGTCGC CCAGGCTGGA GTGCAGTGGC
7101 ACGATCTCTG CTCACTGCAA CCTCCGCCTC CTGGGTTCAA GCAATTCTCC
7151 TGCCCCAGCC TCCCAGTAG CTGGGATTAC AGGCACGTGC CTCCACGCC
7201 GGCTAATGTT TGCAATTAA GTAGAGATGG GTTTCACCA CGTTGGTCAG
7251 GCTGGTCTCG AACTTCTGAC CTCGCGATCC GCCTGCCTCG GCCTCCAAA
7301 GTGTTGAAT TACAGGTGTG AGCCACTGCA CCTGGCTGAC TCGTAACCTT
7351 TTTTGTAAAG AATAAATATT TTAGGTTTG TGGGTCTGT AGTCTCTGTT
7401 GCAACCACTC AACTGGCCA TGGTAGCACA AAAGCAGCTA AAGACAATAT
7451 GTAAATGATG GGTGTAGCTG TGTTCCAGTA AAACCTATAA AAAGTCCGTG
7501 GGCTGGATTG GGTCCAAGGG CTACAGATTG CACACCCCTG GTCTAGCCCA
7551 AGCATCTGTG CATGGTGGCT GGCTTCCCAA AAGTGGAAAGC TGCTAAGCTG
7601 CCTTTTTTTT TTTTTTTTT TTTTTTGAGA GGGAGTCTCA CTGTGTTGCC
7651 TAGGCTGGAG TGCGGTGGTG TGATCTCGGC TCACTGCAAC CTCCATCTCC
7701 CGGGTGCAGG CAATTCTCAT GCCTCAACCT CCCAGGTAGC TGGGATTACG
7751 GGTGCCTACC ACCACGCCTG GCTAATTGTT GTATTTGGT AGAGACAGGG
7801 TTTCACCATG TTGGCCAGGC TGGTCTCAA CTCCGTACCT CAAGTGTAC
7851 ACCCGTCTTG GCCTCCAAA GTGCTGGGAT TACAGATGTG AGCCACCGTG
7901 TCTGGCCGCT TGACAAGCTT CTTAAAGGCA CTGCCCTGAA CTGGCACAGT

FIGURE 3C

7951 GTCACTTGTG TCACATTCTT TTGGTTGAAG AGAGTCTAG AGATGGCACA
8001 GATTCAAAGG CAGGAGAAAT AGACTCCAGC GCTTAAAGTA AGGAGTAGCA
8051 TGTGCCTACA GAATTGGAGG AACTGTTGGA GGCCATCTT GAAGAGAGAC
8101 CACCACTATC CATGGCTTGG CACGTGGGAA TCACTGCTCT ATACCAGGGT
8151 TGCAGACTCA TGTCTTGGG GGCCAGGCAG TGAGTATAAA TGAGTCAAGT
8201 GGGCCAGTTG GAAGATGGAG TCAGACCTGC AGTGAACCTC CAAACACATC
8251 TGCTACCAGGG AGGGCAGCA TTACTCAGCT CCAGCTCAGC GTCATCAGGC
8301 AGGAAGGCCA GGCAGTGTG CCGGATGTGC CAGTGTTCAG AAAAGAGCCA
8351 GAGACTCCAT TTTTATTTT TTGTATGGAA TCTCCTGATT TTGAAATATT
8401 GGCAGATAAT TCAAATTATC TAAACACTA CAGGCCAAAC AAAACATATC
8451 TGTGGGCTAG AGACAGTCTG CCAGTTGTA ACTATTTCTC CAGATCATGA
8501 GTAAATTGGG CTTTACGATG GTCACTCAGT TCTTATTACT CTAGGTTGTT
8551 CAAATGAATT AAAAAGCTG AAATTATATG AATAAACCCC TGGGCACACA
8601 TGAAAGAAGT GAAAACCCA TTGTTTCCTA TTGTAGAAC ATGGAAGCAT
8651 GTCAGAGCCA GAGGATCCAG AGGAAATATT CTCACTAGCC TCAGACCCCTC
8701 AGGAGTGAGG GAGCTTTCT TGTTAATGGC CACGCTTGTG CAGTTTCCT
8751 TCCCAGGTGC TGGTGAAGA AACCCACAGT CTTGGAATCA TGGAAGTGAT
8801 ACCATAATGA CTGTCAGTT ACGTTGCTT AAAGAATGAA GCCACAGAAT
8851 TGTGCTGTTA GCATGTCGT AGCAGTTAGT TGAGTTGGT GCTTGTATT
8901 TACTCTGTGT GGATGTTATT GATCAAAGCT TTTCATTATT GACAGTGTCT
8951 CCATCTGCTG TTTGCTGTT TTAGGGAAA CCACCCCTTA TGACTCAACA
9001 GCAGATGTCT CCTCTTTCCC GAGAAGGGAT ATTAGATGCC CTCTTGTTC
9051 TCTTGAAGA ATGCAGTCAG CCTGCTCTGA TGAAGATTAA GCACGTGAGC
9101 AACTTGTCC CGGAAGTGTG AGTTGGGAA ACTTTTCTT GAAAAGTGT
9151 CTGAGAGAGA AAAACTAGAA AGATGCTTGA GGCAGAATGA GTTACTGGTT
9201 GATAGTAGTC GGTAAAGAACT CTGGTTCTAT ATAAGACAGA TCCAGGTTCA
9251 AATTCAAGGCT GCACCTCTTA TAGCTGGGAG ACCAGGTAAG TTGGGCTTCT
9301 TGTTGCAAG CGACAAACTT AATTCAAAGA CTGAATTAG GCAAGGTGCA
9351 ATGGCTCAT A CCTATAATCT CAGCCCTTG GGAAGCTGAG GTGGGTGAAT
9401 CGCTTGAGCC CAGGAGTTCA AGACCAGCTT GGGCAACATG GTGAAACCCC
9451 ATCTCTACAA AAAATACAAA AATTAGCTGG GTATGGTGGC TTGCACCCGT
9501 GGTCCCAGCT GCTGAGGAGG CTGAGGTGGG AGGATCACTG GAGCCCAGGG
9551 GGTGAGGCT CAATGAGCTG TGATTGTGCC ATTGCACTCC AGTCTGGGTG
9601 ACAGAGTGA ACCCTGTGTG AATAAAAGAG TGAATTATT GGCTCATGAA
9651 ACTGAGAAAT CCAGGAATGA GTTAAGTTT AGCTTTAGGC ATAGCTAGTT
9701 CCAGAGACCT CAATAATATC CCGTGGCCCT GTCCTTATAC TCACTCAGGG
9751 CTGACTTTCT ATTAGGCAGA GTAGGCACGG TGCTTAGGAT CTGTGATATT
9801 TAATTAAAT GAATTAAATT ACTTTAATT AACTGAATTA AATTAAATT
9851 TGTTTAAAAA TTATAGGAA AATGAATATA ATAATGTATA ATGATTCTGG
9901 ATTACATTCA TCTTTATACT AATGTAGTCA TAAAATATAA TTTTGTTTT
9951 TTTTGGAGAC AGAGTCTTGC CCTATTACCC AGGCTGGATT GCAGTGGTAT
10001 ATCATGGCTC ACTGCAGTTT CAACCTCTA GGCTCAAGCA ATCCCTCCAC
10051 CCCAGTGGCT GGGACTACAG GCTCACACTA CCACGCCAG CTAATTTTG
10101 CTTTTTCTC TGTAGAGATA GGGTCTTACT ATGTTACCA GGCTGGTTTC
10151 AACTCCAGG CTTGAAGCAG TCTTCCTGCC TCAGCCTCCC AAAGCTTTGG
10201 GATTACAGGT GTGAGCCACC ATGCCTGGCC CCATAAAATA TAATTTTG
10251 ATTCTTTTTT GTTTTAATG GAGGAAGGGG CTGAGGAAGG CAAAAGTACC
10301 TAGGGCCTAT GAAGTCATAT ATTGGCCTTG CTTTCACCT GTTCTGACT
10351 TTGCTTGACT TCCATGTGAT GAGGCAGTTG GCTGTTAGTG TCCCAGTTTC
10401 ATACTCTTAC ATTAGTGTGTT TTCAACCAGT GGGTGAATTG ACGTTTCGG
10451 TTGTCAGAGC TAGTTGGGGG TGGTGGTGTG TGAGTTGGG GGGAAAGGGTC
10501 CTACTGTCA G TTAATGGGT AGGCCAGAGA TGCCACCAAA CACCTTACAG
10551 TGCACAAAGC AGCCCCATA ACACAGAATT ATGTAGCCCA CAATGCCAAC

FIGURE 3D

10601 AGTGCTGAAT TTGAGAAACC CCACCTTGT AAACATTGCT GTGCAACCAA
10651 CCACCCCTAAA TATTACTGAC TTAAAACAAT AGTCACTGTG GCTGGCGCG
10701 GTGGCTCATG CGTGTAAAGCC CAGCGCTTG GGAGGCTGAG GCAGCGGATC
10751 ACTTGAGGTC AGGAGTTCCA GACCAGCCTG GCCAACATGG TGAAACCTTG
10801 TCTCTACTAA AAATACAAGA ATTAGCTGAA TGTGGCAGCG GGCAGCTGTA
10851 ATCCCAGCCA TTTGGGAGGC AGAGGCAGGA GAATCGCTT AACCTGGGAG
10901 GTGGAGGTTG CAGTGAGCCA AGATCTCACC ATTGCACTCC AGCTTGGGCA
10951 ATGAGTGAGA CTCTGTCTTA AAAAAAAA AAAGTTATTG TATTACCTCT
11001 TGTGTGTGTA GGTAAATTGG ACTCAGCTGG GGATTCCTCT GCTCTGTATT
11051 ACATTGGCCA GGATTGCAGT CACCTGGGGC TCTCCTGGGC TGGAATGTGT
11101 GAGAGGGCTT ACTCAGTGTG TGTTGCCCTG GCTTGGAGGC TGGGCCAGC
11151 TGGGCTCTCTC TCTCTTCTAG AAGTTTCAGG GCCTTTGCT GTCCACATGG
11201 CACCTCTATG TGGTCTCCAA ATCAGAAGTC AAGGAACATAC AGCCTGTGAT
11251 GCCTATTTTG TAAAGAAGGT TTTACTGGAA CACAGCCCTA CCCATGTGTT
11301 TGTACAGTGC CTATGGCTGC TTTCACATCA TAACAGCATT TTATTCATT
11351 TTATTTATTT TTTTTTGAGA CAAAGTCTCA CTCTGGCTGG AGTGCAGCAG
11401 CACAATCATA GCTCACTGCA GCCTCCAAT CTTGGCTCA AGCAATCCTC
11451 CTGTCTCAGC CTCCTCAGTA GCTAGTACTA CAGGCCATG CCACCACTAA
11501 TGGCTAATTT TTTAATTTTG TGTAGAGATG GGACCTTGTG AGATTGCCTA
11551 GGCTGGTCTT GAACCTCTGG CCTCAAGAAA TCCTCCCAACC TTGGCCTCCC
11601 AAAATGCTTG GATTACAGGC ATGAGCCACT GTGCCAGGC CACAACAGCA
11651 TTTGAGTAGT TGTGATAGAG ACCAAATGGC CTACAAAGCC CAAAATAGTT
11701 CCTGTTTGGC CCATTCGAA AAGGCTTGT GACCTCTGAG CTACATGGTC
11751 TCTCTAGCAG GACAGCCTCG ACGGTAGCTC AGGTTTCAA AACACAAAAG
11801 TGBAAGCTGC CAGGGTTTCT TAGGGGTTAT CCTAGGAGGG ACATAGGATC
11851 TCTTTGACTG CATTTTATTG TTTGATGCAT GCTCTGGGGC TGCTCAAATT
11901 CCACCTGAGA GGAAACTACA CAAGGTCTAG AATCCAAGA GGACTGGGGC
11951 ATTGGGTGCT ATTGTTGGAG ACTGGCTACC ACACCCCTGCC CAATGGTAAT
12001 CTTCCCTTAT CTAGATTAAT ACAACCCAG GGAAGATTCT AACTTGGCTC
12051 TGCTTTGGGT CATTGCTCT CCTGGAGGTG AGGTGTTGTG ATCGTTTTG
12101 TTGGAATGCC CAAAGGGGTC AGGGCAGTGT GATTACCAAGG ACCTCATGGA
12151 ATGGGGGATG CGTGGTTATG CAAAGGAGCC GGGGATGCTG GGTAGAAAAA
12201 AAATCAGCAT ATGTTCACTA TAGTGTCTT CAGTATTATA CATGTACTTT
12251 GTTCTCAGTT TTCTCATCTG TAAAATAGGA ATAATGTATA TCCTTTTTT
12301 TTTTTTTTT TTGGAGTCTT GCTCTGTGT CCAGGCTGGA GTACAGTGGC
12351 ACAATCTCAG CTCACTGCAA CCTCCGCATC CCGGGTTCAA GTGATTCTCC
12401 TGCTCTCAGCC TCCTCAGTAG CTGGGACTAC AGGCCTGAC CACACACTC
12451 AGCTAGTTTT TGTATTATA GTAGAGATGG GTTTTCGCCA TGTTGGCCAG
12501 GCTGGTCTCA AACTCTGAC CTCAAGTGT CTGCCTGCCT CGGCCTCCGA
12551 AAGTGTGGA ATTACAGGCA TGAGCCACCA CGCCCATGG GAATAATGTA
12601 TATCTAATGA GGCTGTGTTG GAATTGAATG AGTTAATGCA CAGACCAGAT
12651 TTGTCTGTT GCCTGGCCCA TAGGAGACAA TAAATGGTAC CCAGTATTAA
12701 TAACTGTGAA TGTCAACAAAC ATTTAATATA TTGTATATCT TCAAAATGTA
12751 CTTGAGGTAT TTGTTCATCA TTCTGTTTT GTTTGAATAA GCTCGTGCCT
12801 TCTTTTTGT AATATTTAAA TTTATAAGTA GCGAGTGGGA GGGGAAGGAA
12851 GTTATGTGAT GAGGCTAGCT TACTGAGCCA TCTGCAGGCA CCTTCATTAG
12901 TCTTGAGACT GTCCTCTGGT TACTTAACAG CAGTGAATTA TCTAGAATCA
12951 TTTAGTGTATC AGAAGACTTG GTTTAGTGGA ATGTAGATTT TTTCTAATA
13001 GACCCCTCTT CCAGGGAAAT GTTTCATATT TTTGAAGAGGG TTTCCTGGGG
13051 AGTGTAAAG AGGCCATGAT TGAAAATGGG TGATTACATT AGTGTGTTTT
13101 CTATTCCTCC CTTTTTGAG TTTCTGTGTTT GGAATGTAAG CTTTGTGTTTT
13151 CTACGTGGAG AAGGGTCCCT CAGCTGCTTC TGCCCCAGGTT TTTGAATCT
13201 TCCTATAGGG ATGGAGATTT TCTTTGGGA CTGTTAGAGA AAATGGAATA

FIGURE 3E

13251 GAGTGTAGCT CTGAAGGAGA AGGATGTCTC CAGCAGAAAGT ACCTCTAGCC
13301 TTGGGCCAAG GGAGGGAAGG GAAGGGAACG AGCATCTGGG AACCAGGGAA
13351 GGGATTTTG TCTTCTTAA TTACTCTTAC ATCCCCAGTG CCCAAAATAG
13401 TGTCTGGCAT ATGTTAACGTC CTTAGTAAAT ACTTGTGAA TGAGTGTATG
13451 CTCAGTGAAC AAAATAAATG GCAAACATTA AGCACAGTAT CAGATAATT
13501 GTGTAAAAAA TATACAGCAG TGTTATACCA AAACCTGCAC AGAGGCCAGG
13551 TGCAGTGGCT CACGCCGTGA ATCCCAGCAC TGGGAGGCCG AGGTGGCAG
13601 ATCTTGAGC TCAGGAGTTT GAGACCAACC TGGGCAACAT GCTGAAACCC
13651 TGTCTATACA AAAAATACAA AAAGTAGCTG GGGCATGGGG ACGCACATCT
13701 GTGGTCCCGAG CTACTTGGGA GGCTGAGGCT GGAGTAATTG CTTGAAGCTG
13751 GGAGGTGGAG GTTGCAGTAA GCCAAGATTG TGCCACTGCA CCCCAGCCTG
13801 GGTGACAGAG TAAGACCTG TCTAAAACA CAAAACAACA CCCCCTTCAA
13851 AAAAATCCA AAACACCAC CACAACAAAA AAACCTTACAC AGAAAAGTGT
13901 TGATAATTGT CAAAATTGGG CTGTTATTGG CAATTTGACA GTAGCTGAAT
13951 TACTACCAT T GAGCTATAT TCACTATAGA TAAGATCTTC AATATATTTA
14001 CAACCTTAGT ACTAATGGGA AAATGATAAC TTTTAAAAG TTTTTTTTTT
14051 TTCTTATTGC AAACAATACA CAATACAATG TTAAATATAG AAGGTTAAC
14101 GTGCATCTGA GTCTGTTGG GCTGCATAA TAGATACCTT AGACTTGGCA
14151 ATTATAAAC AATAGAAATT CATTGCTGAC AGTTGTGAAG ACTGGGAAGT
14201 CCAAGATCAA GGCAGCAGCG AATCTGGTAT CTGGTGTGAG CTCCCTGCTT
14251 CAAAAATGGC GCCTTCTTGC TGCATCTTCA CCTGGCAGAA GGGGCAAACA
14301 TGAGTCCTTC AGCTTCTTTT TTTTTTTTT TCTATGTTA AAACTTTGG
14351 TCCGGCGTGG TGGCTCATGC CTGTAATCCT AGCACTTGG GAGGCCGAGG
14401 CAGGTGCATC ATGAGGTCAA GAGATCGAGA CCATCCTGGC CAACATGGTG
14451 AAACCCCCCC GTCTCTATAC TAAAATACA AAAATTAGCC AGGCATGGTG
14501 GCGTGTGCTT GTAGTCCCAG CTACTCAGGA GGCTGAGGCA GGAGAATTGC
14551 TTGAACCTGG GAGGCAGAGG TTGCAGTGG CCAAGATTGC GCCACTGCAC
14601 TCCAGCCTGG CAACAGAGTA AGACTCCGTC TCAAAACAAA CAAACAAAAA
14651 AAACAAAAAA AAACTTTTAT TTTAGGTTCA TGGGTAAATG TACAGGTTTG
14701 TTATGTAGGT AAACCTGTCT TGGGGTTGT TATAGATTAT TTCGTCACCC
14751 AGGTACTAAAG CCTAGTAACC AATAGTTATT TTTTCAGATT GTCCCTCCCTC
14801 CTCCCACCCCT CTGTCCTCTA GTAGGCTCCA ATGTCCTGG TTCCCTTCTT
14851 AGTGCCTTG TGTTCTCATC CTTTAGCTCC CATTATATG TGAGAACATG
14901 TGGTATTGTTG TTTCTGTTCTC CTGCATTAGT TTGCTAAGGA TAATGTCAGC
14951 CTCTTTTTT TTTTTTTTT TTTTTTGAT ACAGAGTCTC GCTCTGTTGC
15001 CCAGGTTGGA GTGCAGTGGT GCGATCTTGG CCTACTGCAA CCTCTGCCTC
15051 CCGGGTTCAA GTGATTCTCT TGCTTAGCC TCCTGAGTAG CTGGGACTAC
15101 AGGTGCGCAC CACCATGCCA GGCTAATTT TGTATTTAG TAGAGATAGG
15151 GTTTCACCAT GCTGCCACG CTGGCTCCA ACTCTTGACC TTGTGATCCG
15201 CCGGCCTCGT CTTTTCCCA AAGTGCAGAG ATTACAGGTG TGAGTCACTG
15251 CACCCGGCCC AATGTCAGCC TCTTTTTAG GGAAGTGATT TAATCACTTC
15301 CCTAAAAGTC CTACCTCGTT TTTTTTTG GTTTTTCTT TTTTTTTTTT
15351 TTTTTTTTTT TTTTTTTTTA GGTAGAGTCT TGCTCTGTCA CCCAGGCTGG
15401 AGTGCAGTGG TGCGATCTTG GCTCACTGCA ACCTCCACCT CCTGAGTTCA
15451 AGCAATTCTC CTGCTTCAGC CTCCTGAGTA GCTGGGATTA TAGGTGCCTG
15501 CCACCAAGGCC TGGCTAATTT TTTTGTATTT TTAGTAGAGT TGGGGTTTCA
15551 CCATGTTGGC CAGGCTGGTC TTGAACCTCT GACCTCAAGT GATCTGCCA
15601 AAATGCTGGG ATTACAGGCG GGAGCCACTG TGGCCAGCCC CTGCAAGTCC
15651 TACCTCTTAA TAGTATTACA CTGGGGATTA CATTCAACA TGAATTTGT
15701 AGGGCGAGG GGCACAAACG TTTAGAATAT AGCACATCAC ATACATAGTG
15751 AGAGAAAAAT CCCTAAAAT CTTACCTGAG ACAATCACTG CCAACAGATT
15801 GCTGTATAGT GTGCCAATT TGTGGTGTG TGTGTGTGCC TAAAAAAATAT
15851 TTATTATGGA AATTAAAAAA CGTACCCAA GGTGGCCAGG TGTAGGGCTC

FIGURE 3F

15901 ACGCCTGTAA TCCTGGCACT TTGGGAGCCC GAGGTGGGTG TATTACTTGA
15951 GGTCAAGGAGT TTGAGACCAAG CCTGGCCAAA ATGGTGATAC CAGTCCTCTA
16001 AAAATACAAA AATTAGCCGG GTGTGGTGGG CACCTGTAGT TCCAGCTACT
16051 CGGGAGACCA AGTCATGAGA ATTGCTTGA CCCTGGAGGC AGAGGTTGCA
16101 GTGAGCCAAG ACCATGCCAC TGCACTCCAG CCAGGGTGCAG AGAGTGAGAC
16151 TCCATCCTAG TAAACAAACA AACAAACAAA CAAACCAACT AACCAACCAG
16201 GATAAAACTC CCTGCTGTGAGAGTATGT GTTCTAATGG ATACTGAGCC
16251 ATCTTGTCT GTTTAACATG TGCTTAATGT TCTTTATAT GGGCGGACTT
16301 GTAGGTTGTT TCAACTTTTC TGTTGATGAA CCTTTAGGTG GTTCTGATT
16351 ATTTTTGTGT TACAACAGTT TTCATCATTC ACATCTTGT ATGCATCTT
16401 TTTGAGCACA TGTGCAAGTA TTTCTGTGGA CAATGGATGA TTCTAGAAA
16451 TTGAAAGTTT GGATTACTGT GTTCCAAAAAA AGGAAGCAAT ACACCCAGCT
16501 ATGTTGGCTT TTGCTCTTGG GTCCAGATGA TTATCTGACA AAGTTATTCT
16551 CTGATTGCAT TTTCTTTCT TTTCTTTCT TTTTTTTTGAGATGGAG
16601 TTTCGCTCTT GTTGGCCAGG TTGGAGTGCA ATGGCGCGAT CTTGGCTCAC
16651 TGCAACCTCT GCCTCCCAGG TTCAAGCGAT TCTCCTGCCT CAGCCTCTA
16701 AGTAGCTGGC ATTGCAGGCA TGCGCCACGA CACCTGGCTA ATTTTTGT
16751 TTTTTAGTAG AGATGGGATT TCTCCATATT GGTCAAGGCTG GTCTTGA
16801 CTTGACCTCA GGTGATCCAC CCGCTTCAGC CTCCCAAAGT GCTGGGATTA
16851 CAGGCGTGTAG CCACAGTGC TG GCCCTCTG ACTGCATTTT CACAGTGT
16901 TGGGTCTTA TCTCTACCTC AGTACCTCAA TATTCACTGC CCACTGGGCC
16951 CTTAGATACT GCAGCTAAAAA GTGCACAGGG GTGGAGTGT GTGACGGTTT
17001 TGGGGTCACA GAAGCAGCTG GTATAGAGAG AAGTTGTGAA GTTTTTTTT
17051 TTTTTCTGA GACAGAGTCT CGCTGTATCC CCTAGGCTGG AGTCAGTGG
17101 CTTGATCTCG GCTCACTGCA ACCTCTGTCT CCCTGGTTCA AGTGATTCTT
17151 ATGCCTCAGC CTCCCGAGTA GCTGGGATT TAGGCATGTG TCACCATACC
17201 CAGCTAATT TTGTGTTTT AGTAGAGATG GGGTTTCACC ATGTTGGCCA
17251 GGCTGGTCTT GAGCTCCTGA CCTCAGGTGA TCCGCCACC TGGGCCTCCC
17301 AAAGTGCTGG GATTACAGGC CTGAGCCATT GCGCCTGGTC TTTTTTTT
17351 TTTTTAAGT AATCATAGGC TTGAATGTAG CCTCTCATCT GTTCACCTTA
17401 ATAATCCAAA AGCCTTTAGA TAAAGAAATG GAGATTTGGA ATGGCTCTC
17451 AGAATTCCAA GAGAGTATTG TCATGGTTT GCCTGCAAAG CACCGTGGTC
17501 TGTCTCCTTG TGCAAGTGTGAAAGCTGGT GTCGCCACTG ACAGGCCAG
17551 AGTTATTAAG TTGGACACTG CTTTAAGCAA CTTTGTAAAC AATCCAAGGC
17601 ATACTAGAGA ATTAGGAGAG ATTGGCTTTG TGTATGAGCA ATAACAAAAT
17651 CAAGTTCAAT CCAGCAAGTT TTTGGGAAT TATAATTCAA AACTCAAATA
17701 CTTGATCTGG AAGAAACTTG GAAAGAGGGAA AGGAAGACAG GCTTGT
17751 GCATTGTCAAG GTAAAAGGA AAATACCGTG CAGCTTTAA TTTTGT
17801 TCATGGCATT CCCCATGTAG GTGCCCTAGA TTTGT TTTTACAGTGGTCA
17851 CGACTTCATG TGGATCCACC CACCACTCTT GCCTGGTTCC CCAAGGGACC
17901 AAGGGAAAGGT GTATTCAAGGA TGATTGCTGA AGTGAGGGT GGGGTCTGTG
17951 GCTGAGAAGA CTCTCAATAC CGCGGCACTC ATTATAAGCC TCTGACACAG
18001 GAGATTCAA CTCCACCGT GCAACAAAGG AACAGGGTGG GCAAGAGTAG
18051 TTACAGTTGC AGGCTGAGTG CGATGGTTCA TGCTGTAAAT CCCAGTGCTT
18101 TGGGAAGCCA AGGTGGGAGG ATTGCTTGA TCTAGGAGTT TGAGACCAGC
18151 CTGGGTGACA TAATGAGACC CTACCTGTAC AAAAAAATT TAAAAATTAG
18201 CCAGATTGGT GGTGCGGCC TATAGTCCCA GCTACTCTGG AGAATGAGGT
18251 GGGTGAGGGT CCCTTGAGTC CAGGAGTTG AGGCTGCAGT GAGTTATGAT
18301 TCTATGATT CACCACTGCA TTCCAGCCTG GGCACAGAG CAAGATTGTG
18351 TTCTTTTTT TTTTGAGAC GGAGTCTCAC TCTGTCACTT AGGCTGAAGT
18401 GCAGTGGTAC GATCTCTGCT CACTACAACC TGACCTCCC AGGTTCAAGT
18451 GATTCTCTCC CTCAGCCTCC CGAGCAGCTG AGATTTAAAG CGGCCGCTTG
18501 TGTGCAGCTA ATTTTGAT TGTTAGTAGA GATGGGGTTT CATCATGTTG

FIGURE 3G

18551 GTCAGGCTTG TCTTGAACTC CTGACCTCAG GTGATCCACC CGCCTGCC
18601 TCCCCAAATG CTGGGATTAC AGGCCTGAGC TACTGCCCC AGCCATTG
18651 GTCTCTTAAA AAAAAAAACTA AGAAAATGAA AAAAATGACA TTGGCAATT
18701 CATTAAAATG CCACTCACTG ACTGTGGTAT GAAATGGCTT TCCCTTGAT
18751 GGACCGAGTC TGTCTCATCG TGTGAGCCAC TTGCAGGGCT GAGTATGACT
18801 CTGGAATGTA GCTCTAACCG TTATCTGCTG CCCAGCCATT GAAATGGCCA
18851 TCCCTTCCAG TTCCCAGAAG ATTCCAGTGT GTGTTTGGGA TTTAAGACA
18901 GTCTCTTGGT CTTCAGTGTG GCATCTTCT GCCGGATTT CCAGGATAAT
18951 TTTGATTATA AGCATTGCA TGCCCTTGGT GTGTAATGCC TGTGTATGAT
19001 GCTGTTCCCT TGTAACGTGC AGGATTAAT TTTTGGGCA GCCACTGCTG
19051 CTCCCCCTTC A TCCCTGCAGG TCATTAGAGT CATCGTACAT TTAGCGATGT
19101 CTCAGATCA G TGATCTAGA GTGTTAATAA ACATGTTAGA TTCCAAATCT
19151 ACTGTCCATT TAATCCATAC TTACATCGTT GAGGATCTCT GACTGAAAGA
19201 TTAGACTTGG AAAAAATAATA AGACTGTATG GTAAGAAAAC TATAGTTGCA
19251 AATCCATTG GACATGTAGT ATGTCAGCC TGCAAGCAG ATGTCAGAAC
19301 CCCATTTAGT TCTCTGAGTG CTAAGCCCT TGCCCCACCA CGCTGTTTT
19351 TTTTTTTGAG ATGGAGTCTC GCTCTGTAC TCAGGCTGGA GTGCAGTGGT
19401 GTGATCTCGG CTCACTGCAA GCTCTGTCT CCAGGTTCAC GCCATTCTCC
19451 TGCCTCAGCC TCCCAAGTAG CTGGGACTAC AGGTGCTCAC CACCATGCC
19501 AGCTAATTT TTGTATGTT TTGGTAGAGA CGGGGTTTCA CTGTGTTAGC
19551 CAGGATGGTC TGGATCTCCT GACCTTGTGA TCCACCCGCT TCGGCCTCCC
19601 AAAGTGCTGG GATTACAGGC GTGAGCCACT GTCCTGGCC CCCACGCCTT
19651 TTTTTTTTT TGGAGACAGA GTTTCACTCT GTCACCCAGA TTGGAGTGCT
19701 GTGGCACAAT CTCAGCTCAT TGTGTCCTCT GCCTCCAGG TTCAAGTGAT
19751 TCTTGTGCCT CAGCCTCTG AGTAGGTGGA ATTACAGGCG TGACCCACAA
19801 CACCTGGCTA ATTTTTGTAT TTTTAGTAGA GATGGGGTTT CACCATGTTG
19851 GCCAGGCTGG TCTCGATCTC CTGACCTCCA GTGATCCACT TGCCCTAGGCC
19901 TCCCAAAGTG TTGGGATTAC AGGCGTCAGC CACCATGCCT GGACCCCTCT
19951 GCCCCTTAA GCACTGCCAC ATATTAGATC TACGAAGGCT TTATGGATAC
20001 AATCCAAGGA AGATGAACCT TGGGCTAGTG GGATAAAACT AAGCGATGT
20051 AGTTAGAATG GAATGATCTG GAAACCAAGT CCCAAGTTGG TCTAAATTAG
20101 ACTCATGTT ACTATGTCAC ACTGTAACCC AGTCTAAATG CTAATAAGCA
20151 TGCTTGACCA AACACTGCC TGCAGCCTTC AGAGAGGAAG AAGGAAAACA
20201 TAATTTGTAT CCTCTCTCCC TATTTCTGA GTCTATGGGA TTCAAAATTGT
20251 AGCTGCCATG GAAACTGTAC TTTGGAATTCTAGAGCCCT TAAATTTAAC
20301 TTAACATATA AAAACACTTT TGTACTGATT TTATAATTAT TCATGATGG
20351 TGAGAAAGTG AATGTCTTTG ACAGTGAGGG AAGCTATCCG AATGCTATT
20401 TCTTTTTTT TTTCTCTCA TAAAGATGCA TATATTTGCA TGCTTTATT
20451 ACCTGGGGCT AACTCTTGCA TCTTTGCAG ATTCCGACAC CATAGCTGAG
20501 TTACAGGAGC TCCAGCCTTC GGAAAGGAC TTGAGTCAGA GAAGTCTTGT
20551 AGGTTGTGGT CACTTGCTG AAGTGCAGGT GGTAAAGAGAG AAAGCAACCG
20601 GGGACATCTA TGCTATGAAA GTGATGAAGA AGAAGGCTT ATTGGCCAG
20651 GAGCAGGTAG GAGGATTITA ACATCATGCT TTTCCACTT CTGTACCGGA
20701 GTGTTCATCG CAAAGACGAT AATCTGCTGC ACTGGCGTCT AGGATCAAGC
20751 ACGTTTCTCT CTGTGACTCT ATATTTAATT ATAGTTGGGG CAAAAAGGTC
20801 TCTCATGTT TTAGCTCATC TTCTGAAC GATGTTGGCT AATTTGAAG
20851 GCTCACAAAT TCCTCTTGAT GTATCATGTT TCTATCGTT TAATTTATT
20901 CAGAACCAAG GTGGCCTTT AGCTAATGAA TTTAAGATGAA TCTTTTATGA
20951 CCATTAGCTG AGGACTCAGG ATATACATAT GGTGGGGTGA ATCAGATTGC
21001 TTTTGTACAC GCTTTAGGTA TTTGTGTTGT GGGCATATGG ATTGGTTTT
21051 AAAACAGGCC TTTGAAGAAA TCAAATAACA TTCTTTGTTA TGTGGCTAGG
21101 GAGTTGCTTG TTTGAGAGCA GGTAGAACGT TATCTTTTTT GTTGTGGTAT
21151 TTTTCTTCT TTTAAACAAG GCTACTGTCT CTAGACATAT TGATTCAATT

FIGURE 3H

21201 GCTGTGTTT AGAGAGATGG CCGTCAGCCT TGGAATTCAAG AGAGTAATTT
21251 ATTACTTACA GACATTTAG TGCACATGAT ATGTCTGATA ATGTACCCAG
21301 CTCTGCAGGA AGCTTGCAAA AGGAATAGAA GTCCCCTGGT TGCTATTITC
21351 AGTGTAAA AACAACCTTG GAAAGTGGAG GAAAAATGCA AATGTATAAA
21401 GCAGGTGCTT ACCAGCTAA GTATCACAGA AGTGGGAGAG CAATTAGCAA
21451 ATTAATTAAAC GATGATGTGA GGGGAGATGT TGTGGGTGAG CAAGGGACAG
21501 TTAGGGACAG TTCTCACCGA TGGGGGAAA TGTAGGTTCT CGGCAGAGAG
21551 AAGTGTGAG AACATGTTGG GTAGAAAGTGT GACATTCTGG AGTACTAGAA
21601 TGCTATGCAA GTGTGTGTGT GTGGGTGTGT GTGTGTGTT AGTGGTTAG
21651 AACAGACTGG GAAATGGCGA AATGAGGACA TTTGGGTGGG GAGGGGGAAA
21701 TGGGTGGGAA ACTCAAGAAC CTTTTTTAA AAAATTGTGG TAAAATATAT
21751 ATAACATAAA GTGTACCATT TTAACCATTT TAAATGTGC AACTGAGTGG
21801 TATTCACTGC ATTCACTGATG TTGTACAACC ATGACCGCTC TCCATTCTA
21851 GAATTTCT ATCATCCCAA ACAGAAACTC TCTATCCATT ATACAATACC
21901 TCCCCATTCC CCCAAGAACC AGTTTTGAA TTGCAGTTA CTTTGTGAGG
21951 CTGTTGGGAA TTATTTAGGC CTCTGGAAGG AGGAGGTTGG GATCAGAGTC
22001 TGGCCCTGTG GACTTCATG ACTTTGTGT GCCTCCAATC AGAGAAGCAG
22051 CGGAGGGCAG GAAGCTGCTT GTCAGAATCT GAGAGTGTATG TGGCTTCTTT
22101 GTTTAGCAAT AAAATGTGAG CACATAATAG AAAGGAAAAG TGACAGGACA
22151 TGGCAGATAA TTTGGAAGAG AGGAGTGGAA GATGCTCACT CAGCCTCCCA
22201 GCTCCTGAGA AAGAACTGTG TCTCATCAGT TCATACTACC TGAGCATCTG
22251 TTGTATCTGG TGTGTTCTA GGTCTGGAG AAGAGGCATT ACGTGTAGCC
22301 CTGACCTTGT GATGCTTATG TTTTGATGG GAAATAGTGC GTGTAAAAAG
22351 AAAATAATCC AACAGGCCAC ACGGCAGGCA AACAAATAGAG ATATTCAAAT
22401 AGGTATACCT TCCTCCAGGT GAATGGCCTG AAATGACCGT GTGGAAGTGT
22451 GGGCTGGGGG CTTATAAAAT TATACACATA CAGGCGCTAA CTAAAGCCGC
22501 CTATTCAATT CTTAAGAGGA TGATAGAAA AGAAAAGTAG GGTCTTAAAC
22551 TGAGCCATTG GGAATTTAAG GGCATGAGAG AAGCCAGCAC AAGCAGTGAA
22601 GGGAAAGGAAA AGAAGTGCC GAGAGGAGGG AGGGATGCTG TTCTGCAGAC
22651 AAGGCCTGCC GCCTGGGAGA GGCCCGCACG CCCACCCAGG GTTCTCTGAC
22701 AGCTGGAAGG GGTCTTCAGA GACTGTTAT ATTTTATTTA TTTTTTATT
22751 TATTTATTTT GAGACAGAGT CTCTGTCACC CAGGCTGGAG TGCAGTGGTG
22801 CGATCTCAGC TCACTGCAAG CTCCGCCTCC CAGGTTCACCA CCATTCTCCT
22851 ATCTCAGCCT CCCGAGTAGC TGGGACTACA GGCCTGCTCC ACAATGCCCG
22901 GCTAATTTTT TTGTAATTTT AGTAGAGACG GGGTTTTACC TCGTTAGCCA
22951 GGATGGTCTT GATCCCTGA CCTCATGATT CGCCCACTTC GGCCCTCCAA
23001 AGTGCTGGGA TTACAGGTGT GAGCCACTGT GCCTGGCCGA CTGTTTCTAC
23051 TATTTAGAG AGAGGGTCTC ACTGTCATCT GTGCTGGAAT GCAGTGTATGC
23101 AGTCATAGCT CACTGCACCC TCAAACCTCT GGGCTTAAGC GACCCCTCCCG
23151 CCTCAGCCTC TTAAGTAGCT GGGACCATAG GCATGTCGTC CCACACCCAG
23201 TTAACCTTAT TATTTATTTA TTTTATTAGA GAATGAGTCT CATTCTGTTG
23251 CCCAGGCTAG AGGTGCAGTG GCACGATCTC GGCTCACTGC AACCCCGCCT
23301 CCCAGGTTCA AGCGATTCTT CTTGCTCAGC CTCCCTGAATA GCTGGGATTA
23351 CAGGCACCTG CCACCCACACC TGGCTAATTT TTGTTTTTT AGTGCAGAGG
23401 GGGGGGTTTC ACCATGTTGG TCAGGCTGGT CTCGAACCTC TGACCTTGTG
23451 ATCTGCCTGC CTCGGCCTCC CAAAGTGTG GGATTACAGG CGTGAGCCAC
23501 CGTCCCCGGC CCACCTTATT ATTTAAAAAA CATTGTTTTA TTTTTTATTT
23551 TTTGAGACAG AGTCCGCTGG AGTTCACTGTG CCGGATCTCA CTCACTGCAA
23601 CCTCTGCCTC CTGGGTTCAA GTGATTCTTG TGCTTCAGCC TCTCTAGTAG
23651 CTGGGACTAC AGGCAGGGTGC CACCATGCCT GGCTAATGTT TTTTGTATCT
23701 TTTTAGTAGA GACGGGGTTT TGCCCATGTT GGCCAGGCTG GTCTCGAACT
23751 CCTGACCTCA AGTGTATCTGC CCACTTTAGC CTCTCAAAGT ACTTGGGATT
23801 ACAGGCGTGA GCCACTGTGG CTAGCCCCA GCTAACTTTA AAAAAAAATT

FIGURE 3I

23851 TTGTGGGCCG GGTGCAGTGG CTCACGCCCTG TAATCCCAGC ACTTTGGAGG
23901 CCAAGCAGGG CGGATCACTT GAGGTCGGGA GTTTGAGACC AGCCTGACCA
23951 ACATGGAGAA ACCCTGTCTC TACTAAAAAT ACAAAAAAATT AGCCGGGTGT
24001 GGTGGTGCAT GCCTGTAATC CCAGCTACTT GGGAGCTGAG GCAGGAGAAT
24051 TGCTTGATC TGGGAGGCAG AGGTTGCAGT GAGCTTAGAT CACGCCACTG
24101 CACTACAGCC TGGGCAACAA GAGCGAACAC TCCGCTCAA AAAAAAAA
24151 TAAATTATGT AGAGGTGGGA TCTCCCTATG TTGCCCCGAC TGGTCTTGA
24201 CTCCCTGGCCT CAAGTGATCC TTCCATCTCC CCCCTCCAAA GTGTTGGGAT
24251 TACAGGCATG AGCCACCCCT CCTGGCTGAG ACTGCTTATT TTATTTATT
24301 TTAATTTTTT TTGTTTTGAG ACTGCTTATT TTAATGGAAG CTTCAGGGGT
24351 CAGACGGGGT CAGACAGAGT CATTGGTGAG CAAGCAAAGG TGTAGACTGT
24401 TCAGTTCAGC CTTCTTGGA CACCTTTAT GTGCCAGACA AAAGAAGGAT
24451 CAGCATATCA GGTGCAGTAA ATTATTGGGG TTATGTTGGT GTTCCCCAAA
24501 TGTGTTAGAT TTATCCCTGG TAGTGTAAA TCTCATGATT TTAGGTAGTA
24551 TATGGACAAC CTATGTAAAA ACATTTAATA GTTTAATATT AACTAGCATA
24601 TCAAAACCTG TGACTTTGCT CACGCCGTGTA ATCCCAGCAC TTTGGGAGGC
24651 CAAGGCGGGG GGATGGTTTG GGCCCAGGAG TTTGAGGCCA GCCTAGGTAA
24701 CATGGTGAGA CCCTGTCCTCT AAAACAAAAC AAAACAAAAC AAACAAACAA
24751 ACAAAATAAC AAATCCCCTG TAACTTGTC TAACAATAAC CTAAACAATT
24801 TTTTATTTAA AATTAATAA AAAAATTGAA ACAGTAACCA TTTTTTTTT
24851 TTTTTTGGA GACAGAGTCT TGCTTGTCA CCTAGTCTAG AGTGCAGTGG
24901 CACAATCTCT GCTCACTGCA ACCTCTGCCT TCAAACAATT CTCCCTGCCTC
24951 AGGCTTCTGA GTAGGTGGGA TTGATTACAG GTGCACTCCA CCATGCCAG
25001 CTAATTTTG TATTTTAGT AGAGACGGGG TTTCACCATG TTGGCTAGGC
25051 TAGTCTTGAA CTCCTGACCT GCAGTAGTCC ACGTGCCTG GCCTCCCCAAA
25101 GTGCTGGGAT TACAATCACA AATTTATAGA AAAGTTGCAA GTACCATGTA
25151 GTCAGGGTTC TTAAGAGAAA TGGAACCAAGT AGGAGATAGA TATATAATCA
25201 TCTCCTAGGA TTATAAGTTG ACACATAAGA CTAACCGTCA CATACAGTAT
25251 AAACAACCTT TTTTCTTAAA CCATTTGATA GATACACACA CACTGATATA
25301 CATAGAATAT ATATACACAC ACACAGAATG TATATACACA TAGAATATAT
25351 GTGCATACAG AATATATACA CAGAAATATA TATGTACACA TGCA TAGAAT
25401 ATATTTACAT ATATATGCAT ATATATAATT TATTTTTTTT AAGCAGTTGA
25451 TTATACAGT TTTTGTTTT GTTTTTTTT TGAGACAGAG TCTCACTCTG
25501 TCACCCAGGC TAGAGTGCAG TGGCGAGATC TCAGCTCACT GCAACCTCTG
25551 CCCCCGGGTT CCAGTGATT TCCTGCCTCA GCTCCACAAAG TAGCACACCA
25601 CCATGCCAG CTAATTTTG TATTTTTTTT AGTAGAGACG AGGTTTCATC
25651 ATGTTGGCCA GGCTGGTCTC GAACCTCCTGA CCTCAAGTGA TCCGCCGCC
25701 TTGGCCTCCC AAAGTGCTGG GATTTCAGGC GTGAGGCCACC ACACCTGGCT
25751 CCCATAATGT CTTTTAGAAT AAAACGATCG AGTTGAGGAT CACACGTGAC
25801 ACTTAATTGT CCTGCTCTT TAGTCTCCTT CAATCTGGAG CAGTTCTTTG
25851 ATTTTCTCTG GACTCTCATG ACCTTGACAA TTCTGATGAT TATAGGCCAG
25901 TTATTTGTAA AATTTGAAT TTGCTGATG TTGCTTATGT TTAGATTTAG
25951 GGTCTTGGTC TTTGGCCGGA ATATCTCAGA CAAGATGTC TGTTCTTATT
26001 GCATCAGAGC AGAAGACTCT CTGTTTCAGT TGATCACATT TATGTTGATG
26051 CTCACCTTGATC TCACTTGATT AAGGTGGTGT CAGTTATGCC TTTCTACTTG
26101 TAGGGTTACT CCTTCCTCCT TCGTGATTTT ATTTATTTA TTTTTCTTAG
26151 AGACAGGGTC TTGCTTGGTT GCCCAAGCTG GAGTGCAGTG GTGGGATCTT
26201 GGCTCACTGC AGCCTTGAAC TCCTGGCTC AAGTAATCCA CCTGCCACAG
26251 CCTCCTGAGT AACTGGGACT GTAAGCGAAC ACCACCAAC CCAGCTACTT
26301 TTTGTATTGT AGAGATGGGG TCTCACTGTG TTGTCAGGC TGGTCTGTAA
26351 CTCCCTGGCCT CAAGCAGTCT TCCGGCCTTG GCCTCCGAA GTGCTGGGAT
26401 TACAGGCATG AGCCACTGCA CCCAGCCTCC TTTGTAATTAA AAAAAGTATT
26451 TTATGGGAG TTACTTCAA GTGATGGAAA TATTTTATAT CTATGTGGAC

FIGURE 3J

26501 TTGGATTTTC CTATTCAGT CAGTGAGTTA TAATCCATT CTGTCACTAG
26551 TTTTATACTT AAATTGTTCC CAACTTGGCC ACTGAGAACCTTTTAGGTT
26601 AGCTTTGTG TCCTTTCAC ATGTCTCCA GATTCAATTGA ATACATTCCT
26651 GCTTCTGGT ATAGCAAGAT GTTCAGGTTC TTTGGTACT TTACTTTCT
26701 CTGCCCTGGC TCTGGCATCA GTCATTCTC AGAGGAGCCC TGTGCCTTTC
26751 AGTGGACAAT GGTGTTAGA GGCAAGATC TGGACATTGG GTGTTTCTAT
26801 TGCTACCGGT GTGTCACTAC TCCCAGACCC CTTTCAGTGG ACAGCACTAA
26851 GGAATACACA TACGTATATA CAATATATCC ACCTACACAT GTGGTGCAC
26901 TCACACACAC ACATATACAT TACATCTATA TTTGTGTATC CATGTCTATA
26951 TATTGAAAAT TGTGGCTGGG CACAGTGGCT TATGCCCTTA ATCTCAGCAT
27001 TTTGGGAGGC TGAGGCAAGA GGATCACCTG AAGCCAGGAG TTCAACACCA
27051 GCTTGGGAAA CAGAGAGAGA CTCTGCTCT ACAAAAATAA AAAGGGAAAA
27101 CCATGAGTTC ACACCCGTGC CCCCAGTTCC AATCCAACCT CACAGGGTTC
27151 ATTTTAGTTT TCACCCCTTC CATGTTGTG ATTCTCTTCT CTGACATTAT
27201 ACCCTTAATA TGTTTACTTA TTTTATGCAT CTGTATGCAT CCAATCTACT
27251 GTCTTGTGTT GTATCCCACC TCCCCTTGGT GGGTCCAGAT AATCTGCTCT
27301 GGGTTGCCCT TTCACGTGGA TGTCTTCCTT ACCCTGTGTG GGCCTGTGAT
27351 ACTGGGCTGC CCCCACACAT GAGTGTGCC CTCCTCACGT TGCTTGGGAC
27401 GGCACTGTGT CCTGGGCCAC CATGACTTT CTCATAACTA GCGTGGATGC
27451 TTACCTTGTGTT CCACACCACT GAATGGCTTC AGGAAGAGAA GAGGAAGAGA
27501 AAAATATTTA CATTAAAGA AAGGTAGTTT AAAGAAATAT GTTAGGTAAA
27551 GAATTGAGCA GGTAAATATAC GGAGCTGGCA AAAATTGTGA CCAAAGTAGG
27601 TGAATGATTG AGATTATGC AATTCTGGC TAAGTGACAG CCCCTTCCCT
27651 TTCCCTTCCC TTCCCTTCC CTTCCCTTTT CTTCCCTTTC CTTCCCTTTT
27701 CCTTCCCTTT CCCTTCCCCT TCCCTTCCCT TTCCCTTCCCT TTCCCTTCCCT
27751 TTCCCTTCCCT CTTCTGTGTT TCTTTTCCCT TCTTTTCCCT GCCTTTTTT
27801 TTTTTTAAAG GCTAGAAACA TCAGTTTAGG CATAAAGACA GAGGAAAAGG
27851 CTTCTTTTC CTCTCACAGT TCTTATAAT TGTCTAAGCA GTTTCTTTT
27901 TCCCTAGGTT TCATTTTTG AGGAAGAGCG GAACATATTA TCTCGAAGCA
27951 CAAGCCCCTG GATCCCCAA TTACAGTATG CTTTCAGGA CAAAATCAC
28001 CTTTATCTGG TGAGTCCTTA CATCTGTCTC TCTGGAAATTAA GCCTAGCACT
28051 CTGACACTCA GATGCCCTGTG GTAGAACTGA ATGTTGTTCT TGCCCATGTG
28101 GTCTCATTCA TGCAAAAGACT TTCTTACCTT ACAGGTGTCT CCCTGGTTTC
28151 CTCGTTATAA AGATCAAGAG CTAACCCATT TAGAAACACGC CTCATTGGGC
28201 TGAACCTGGT GGCTCACGCC TGTAACTCCA GCATTTGGG AGGCCGAGGC
28251 GGGTGGATCA CGAGGTCAAG AGATCAAGAC CATCCTGGCT AACACAGTGA
28301 AACCCCGTCT CTACTAAAAA TACAGAAAAA TTAGCCGGGC ATGGTGTGCGG
28351 GTGCCCTGTAG TCCCAGCTAC TCAGGGTGGCT AAGGCAGGAC AATCGTTGA
28401 ACCTGGGAAG CGGAGCTTGC AGTGAGCCGA GATTGCGCCA CTGCACTCCA
28451 GCCTGGGTGA CAGAGCAAGA CTCTATCTCA AAAAAAAAAA AAAAGAAAAA
28501 AAAGAAACAG CCTCATTGAC AGTTGGATAT TGTAGCTGTG GCTTCAGGC
28551 AATAATAGGG AATCATTAT TGGGGAATAG TCTGTCATTA TGTATAAGAT
28601 AATCTTGCTT TAATTTTAA AACTTCTG TGTTAGCTTG CTTAGGATTA
28651 AAAAATGAT AATAGTCAT GTTTGTTATA AGAAAATGCA AACACTGCAG
28701 ACATGCATGA AGTTGAAGGG AAAGCCCCCCTT TTTTCTTTT CTTTTCTTT
28751 TTTTTGAGA CAGAGTCTCG CTTTGTCACTT CAGGCTGGAG TGCCTGGCA
28801 CTATCTCGGC TCACTGCAAT CTCCACCTCC CAGGTTCAAG AGATTCTTCT
28851 GCCTCAGCTT CCCTAGTAGC TGGGATTACA GGCACGTGTC ACCACGCCA
28901 ACTAATTTT GTATTTTAG TAGAGATGGG GTTTACAC GTTGGCCGGG
28951 CTGGCCGCAA ACTCCTGACC TCAAATGATC CACCTGCCTC GGCCTCCCAA
29001 AGTGGTGTGA TTACAGGAGT GAGCCACTGT GCCCGGCCCT TCCGTTTAT
29051 TTTCTAATCC TCCTCCCTAG GGGAAAGAAAT GTTAAATGGT TACATAAGCT
29101 TTTCTTTCT GACCCTTAAC TGTGCTCTGT AGGAGCATGG TGGGGATGT

FIGURE 3K

29151 TTCTTTCTT TTCTTCTTT TTTGAGACCA GGTCTCACTT TGCCACCCAG
29201 GCTGGAGTTC AGTGGCATGA ACATGGCTA CTGCAGCCTC GACTTCCTGG
29251 GCTCCAGCAA ACCTCCCACC TCAGCCTCCC GGGCATAACAC CACTGTGCCT
29301 GGCTAATTTT TGATTTTTA GTAGAGACGG GTTTTGCCA TGTTGCCAG
29351 GCTGGTTTCG AAGTCCTGAG CTCAGAGAT CTTCCTGCCT TGGCCTTCCA
29401 AAGTGTGGG ATTACAGGTG TGAGCCACCA TGCCCAGCTC CGGTGGGGGA
29451 TATTTCTATA TCCACATGTG TATAGTTAC TTTATAAAAAA TGGTATGTTA
29501 CTCTGTGCTT GGCTCTCCAG CTTGCTGTTG CCTTTCACCA GTGTATCCCA
29551 GACATCCTT CTTCCTTGTG AGTAACGCAG GTCTACTTTA TTCTTGGGC
29601 AGTGGCATAA TTTTCCCTGA TGTGTATATA TCATAAGTTA GAGAATGCTA
29651 AAATTCTATT TGGGGCCTTG TTTAGGTTCT TGAGGGATTA AATTCTAAA
29701 TTTAACAAAGT GTATCCTGGA AACAAATTTC GTTCTGATT CAGCCCTTAA
29751 AAGAGGACTA TCATGTTACC TTGAATGGAG ATAAACAGGC TCACGTAAGA
29801 GAAAAGGGTA AGAGGGATGA ACTCCCACCT ATCTTAAACT TCTACTGGCC
29851 CGTTTTGGG GAATTGCTG TGTTTATTCC TGACCTAAA TAAATAAGTT
29901 TATGTGTCTT GGTTTCATAT TAGTTGAGAA CCCAGTGCCT GGAGAGAAGT
29951 TTTCCTTGTG CTCTGAGTGA GGACATTAC ATATGAATCT ATTGGCAGAC
30001 TGGCTTTGAC TGACCACACG TGCTTCAGA ACCAATGCCA CAGCTCTTAG
30051 GTTTATGGCC TGAAACACCC TTTCCTTACA TATTGCCCTA GAAACTTCC
30101 TTCCCTTGAGA CATGGGCAT GGAACCTCA CCTTCACAGA TGACCTTGGT
30151 GTGTTTCTAG GGTTGCTGGT GTTCCAGGAC ATCTGTTGCA GATGCAGTAT
30201 TTACCTTGTG CTCTCTGCAT CATAAGCAGC TTCTCATGTT TGAATGTATT
30251 AACAGACTTT TAATTTTTT TATTITTGAG ACAAAAGTCTC ACTCTGTAC
30301 CCAGGCTAGT GTTACCCAGG CTGGAGTGA ATGGCTCAAT CTCAGCTCAC
30351 TGCAACCTCC ACCTCTGGG TTCAAGCGAT TCTCTTGCCT CAGCCTCCCG
30401 AGTAGCTGGG ATTACAGGTG CATGACACCA CGCCCTGCTA ATTTTTGTAT
30451 TTTTAGTAGA GACGGGGTTT CGCCATGTTG GTGGGGCTGG TCTCAAACTC
30501 CTGACCTCAG ATGATCTGCC CGCCTTGGCC TCCCAAAGTG CTGGGATTAC
30551 AGGCCTGAGC CACTGCGCT TTTCTTTCA TTTTTTTCT GAGATGGAGT
30601 CTTTCTCTGT CACCAAGCTG GAGTACAGTC ATGCAATCTC AGCTCACTGC
30651 AACTTCCACC TCCTGGGTTA AAGTGATTCT CCTGTCTTAG CCTCCTGTGT
30701 AGCTGGGACT ACAGGGCTGT GCCACTGTG CCAAGCTAATT TTTATATT
30751 TAGTAGAGAC GGGGTTTGC CATGTGGGTT AGGCTGGCT TGAACCTCTG
30801 ACCTCAGGTG ATCCACCCGT CTTGGCCTCC CAAAGTGTG GGGTTATAGG
30851 CGTGAGCCAC TGTGCCAGC CTCAGGCTTC TTTATTAAGA AGAAGTTCGG
30901 GCCAGGTGTG GTGGCTTACA CCTGTAATCC CAGCAATTG GGAGGCCAG
30951 GTGGGCGAGT CAGGAGGTCA GGAGATCGAG ACCATCCTGG CTAACATGGT
31001 GAAACCTCGT CTCTACTAAA AATATAAAAA ATTAGGCAGG TATGGTGGCG
31051 GGTGCCTGTA GTCCCACTA CTCGGGAGGC TGAGGGAGGA GAAAGGTGTG
31101 AACCTGGGAG GCAGGAGCTTG CAGTGAGCCC AGATTGTGCC AGTGCACCTCC
31151 AGCCTGGGTG ACAGAGCGAG GCTCCGTCTC AAGAAAAAAA AAAAAGACGT
31201 TCCCTTGAAA CAACAGGGCT TTTGTTTGTG TTGGTTGTG TTTGTTGTT
31251 ATTGTTGTT TAGATACGTA TTTTTTTCTT TCTTTTTTT TTTTAAGTGA
31301 TGATGTCTCT GTTGCACTGG CATGATCATA GCTCACTGTA ACCTCAAATT
31351 GCAGGGCTCA AGTGAATTCTC CTGCTTCACC TTCCGTATTA GCTGGGACAA
31401 CAGGTACAAA CCACCATGCC TAGCGAATT TAAATTTTT CATAGAGACT
31451 AGGGTCTCAC TATGTTGCCT AGGCTGGTT CGAACTCCTG GCCCCAAGTC
31501 ATCCTCCTGC CTTGGCTTCC CAAATTGTTG GGATCACAGG CATGAATCAC
31551 CACACCCAGC CTATTTTAG ATATTTTAAT TCGAGCTCTA CAGGAGGTTT
31601 AGAACACTAG CTTGTGAAGA TAAACTTCAT TTTCAAGGCC ACACAGAAC
31651 TAAGTGGTCC TGGAATTAGG AAGGGCTTTG ATTTTTGGA CAAAGTTGA
31701 GAGTCCACAG TTTCTGGTC TACCTTGCAC TGCTCCATAA ACTCATATT
31751 CTTTCTCTG AGCTGAAGAG CTCCCCCTCT TGTTGTCTAG TCTCAGGCAA

FIGURE 3L

31801 CTTATTCTTA AAAGTAAGCA TTATTGAAAT GCTTTGGGAT TTTCACATCA
31851 TCAAGGTCCA TTTTGGTAGA GGCAC TGACA GATTTTGAGT GTTCTGTGTG
31901 AAGGAAC TCA GTTGAGGATT TAGTGGTCCA TGTGGCAGGC TACTGCTCAG
31951 TAGCTTCAGG GAAACCACTG CTTGCCCTCC CTGTGGCCAG TGAGGATGAT
32001 CAGAGGAGTC CCAGCAGGAA TGCCCAAATG TAGTTTCTT ACATGTTGAT
32051 GGGAGTGCAT TGTTTCA GTGTTCTT CAAACAGTT CTCAAATCAC ATCTTCAGGA
32101 GGGTACTATC TGGGCAC TTT GATAATTCT CACTTTGATG TCACCGTTCT
32151 TATTACCATC ACCTAGTTT GTCATAGTAG AAATAAC TTT CCTTTTCTG
32201 TGTGTGTGTG TGTGTGTGTG TGTGTGTG TGTGTGTG TTGAGATGGA
32251 GTCTTGCCGT GTTGGCCAGG CTGAGTGC GTGGCGTGTG CTCGGCTCAC
32301 TGCAACCTCT GCCTCCCAGG TTCTCCTGCC TCAGCCTCCC GAGTAGTTGG
32351 GATTACAGGC GTGTGACACC ACGCCTGGCT CATTTTGTA TTTTCACTAG
32401 AGATGGGGTT TCACCACTTT GGCCAGGCTG GTCTTGAACT CCTGACCTTG
32451 TGATCCGCC ACCTTGACCT CCCAAAGTGC TGGGATTGCA GGTGTGAGCC
32501 ACCACGCCCTG GCTTTTTTTT TTTTTTTTG TGAGACAGAG TCTTGCTCTG
32551 TTGCCCAGGC TGGAGTGCAG TGGCGGATC TTGGCTCACT GCAGCCTCCA
32601 CCTCCTAGGT TCAAGCAATT CTTCTGCCTC AGCCTCCTGA GTAGCTGGGA
32651 TTACAGGTGC CCACCAACAT GTCCGGAAA TTTTGATATT TTTAGTAGAG
32701 ACAGGGTTTC ACCATGTTGG CCAGGCTGGT TTCTAACTCC TGACCCAGG
32751 TGATCCGCCT GCCTCAGCCT CCCAGAGTGA TGGATTACCA GGCATGAGCC
32801 ACTGCGCCTG GCCACCTTTG TCTTCTTAGT TGTGGATTAA ACTGCTGTGG
32851 ACATCTGCTT GGGCATAGCC TTCCCGGAGT ACCTCTTGGA TTGGGACTGT
32901 CTGTGGGTTT CTGTGCTAGG ACAGGCTCCC AGATGTAGGA GGCTTCCCCA
32951 ATGATCTCAC CACTGGCATT GGCATCCTTA GCTTCTACTC AGCTTTCCA
33001 TCTGCCATCT TGCAAGATGG AAGGTTGTTT TGTTTTGTT TTTGTTTTT
33051 GGT TATTTT TTTTGAGATA GAGTCTCGCT CTGTTGCCAA GGCTGGAGTT
33101 CAGTGGCGCA ATCTCGGCTC AGTGCAACCT CCACCTCCTG GGTTCAAGTG
33151 ATTACACCTGC CTCAGCCTCT GGAGTAGCTG GGATTACAGG CGCGTGCCAC
33201 CATGTTCGTT TAATTTTTG TATTTTTAGT AGAGACGGGG TTTCACCGTG
33251 TTAGCCAGGA TGGTCTCGAT CTTCTGACCT CATGATCCGC CTGCTTCAGC
33301 CTCCCAGAGT GCTGGGATTA CAGGCGTGGAG CCACCGTGC CAGCCTAGGA
33351 GGGTTCTTAA TGCAAGTGT TTTGGAGTT CTGGTTGCCT CAGCACACTG
33401 CTACTTGGGT CAATGACATT TTTACTCCCT TGTTTTGTAG CTCAATTGGG
33451 TATTACTGAT GGGATTTGT AATTATTAAT ATTTCTTGT CTCCATTITC
33501 TTCTCAAGTA CTTTGTGCT TTTGAGTAA ATGCTTGCTA AGGGTATAAGT
33551 TTTCACATAA AAGCTCAAAT TTAGCATGGA AATTAAAGATA TGCTCATACG
33601 TCTGCCATCC CTTATCTGTA ATTCTGAAAT ACCTAGAGTT CTGAATAACC
33651 TCAAATTCTT TTGTTACTTG TTTATCAGCA AAACCTGATT TGAACTCAGT
33701 TTTGGCAAA ACTTGATCCA AGCTCTTTA AGGCTCTTT TAGTCTTAT
33751 TCATTCCTT TAGTGTGACT TCCCATTG CTATAAAATT ATGAGTGTGT
33801 TTGATTACAA GGTGATGTCC CAGACCCCTAC TGAGGGTGTG ACATAATATA
33851 AACTGTATGT ATGGCTGGGC GCGGTGGCTT ATACCTGTAA TCCCAGCAAC
33901 TTGGGAGGC CGAGGCAGC GGATAACCTT AGTTCAGGAG TTCAAGCCCA
33951 GCCTGGCCAA CATGGTGAAC CCCCCTCT ACTAAGAATA CAAAAATTAG
34001 CCAGGCATGA TGGTGGCGC CTGTAATCCC AGCTACTCCT TAGGCTGAGG
34051 CAGGAGAACATC ACTTGAAACCC AGGAGGTGGA GTTGCAGTG AGCCAAGGTC
34101 ATGCCACTGC ACTCCAGCCT GGGCGACAAA GCAAGAATCT GTCTAAAAAA
34151 AAAAAAAAAAA AAAGTGTGTG TACCACTTTA CTTTCTAAA ATCTGAAAAAA
34201 TTCTGAATCT GGAAACCCAT TCTGCTTCAA GATAATGGG TCCTAGATTT
34251 ATATCGGTAC CGTACAGTCC TGAAATTCCA TCCTATCTAT TGGCCACTTT
34301 TACATCAACA AACCTTTGAA GTTGGGGAA ACTTACATAT CACGCTCCCT
34351 TGGCAGTTGA ACATTATTTA TTTATTTGAA GATGGAGTAC TCGCTTGCC
34401 CAGGCTGGAG TGCAGTGGCG CGATCTTGGC TCACTGCAAC CTCTGCCTCC

FIGURE 3M

34451 CGGGTTCAAG CAATTCTCCT GCCTCAGCCT CCTGAGTAGC TGGGATTATA
34501 GGCATGCAAC ACCATGCCA GCTAATTTT GTCTTTTAG TAGAGACGGG
34551 GTTTCACTAT GTTAACCAGG CTGTTCTGA ACTCCTGACC TTGTAATCTT
34601 CCCTCCTCGG CCTCCAAAG TGCTGGAATT ACAGGCGTGA ACCACCACGC
34651 CTGGCCCTGA AGATACATT TAAATCAATG AAAAAAAACAA CAGGATTCTA
34701 CCTCCTATGG TATATCCCTC CTGGCTGTCT CTTCTCTCCA GTCTTGCTC
34751 TGCTGTGTGG GTTTCAGGCA TCCATCTCTC CTACTCTGAA TTACTGTGAT
34801 AACCTCTGAA GTATTTCCC TGCCATCTGT CTGGCCCTTC TCCCAGGTCT
34851 TCCACATACT GCAGCCAAGT CAGCCCCGTG TTGAAACCCCT TCAAGACTCC
34901 CTGCTGTCTC CTGGATGAAG TCCAGACTCT TCCACGTGAC TTACCAAGGCC
34951 TTTCTTGACAC TTGTCAGGAG CCACTTACTG TTTCTCTCTT TCTACCTTAA
35001 CATCCTGAAC TTCCCTTGGT TCTTTGACCT TGCCCTGTGAC CTTTTTCCAT
35051 GCTGTTCACT CTTTCCCTGT TCACCTTGCT AACTCCTCTT TCTCTTCTG
35101 GGTGGATCA GATTTCACTT CTTCCAGAAG CCCTTCCCTAG ACCCTATACT
35151 TCTGGAATGG CGCCTTTGAA CTGTACGCTC ATTGCACCCCT GTACTTCTCC
35201 TTTATGAGTG GGTGCTGGTC TGTCCTACTA GGCTACTTCA TCCATAAAGG
35251 GAGAGTAGAG CTTTACCAAG TCAATGCTTA AGCAATATT ATTGGATGAA
35301 TGTGTGATTA ATTTCATAGA AATTTGATGT GCATTCAAAT TTACTTATTG
35351 TATTACGGAA CTTGCATTAT ATTCTCAGTG GAGTTATTTT CTTTCACGTG
35401 TGTAAATTCAA GATAGACTCA GTGAGATTTT CAAAATTGG AATGCAGTGC
35451 AAGGAAATTG AACTTGAGTT CTTTGCATT TTGATGGTTA AAAATTCCC
35501 ATTTGTGGTG ACATACCACA ATAAGCCAGT GAATGTGGCT TATTGTTTTC
35551 TGGTCTATAG AAAATTGTCG CAAACTCTGT CATAATGTCT GGTTCTATAT
35601 AACAAAGCTA GTCCTGTATT CTGCATGTGG CTGATGGAAA CAGTGCTCTG
35651 TTGATCTGGT TCATGAAGAA ATCTGTTCAA TTCTGCATAA CAGATGCCTT
35701 CATCAGTGTG CTTCCATGAA GGAGCTGATC TTCACAAAGA ACACATAGTT
35751 TTGCATCCCA CCACTTGCAG TATTTTTTTT TTTTTTTTTT TTTTTTTGAG
35801 ATGCAGTCTC GCTCTGTAC CCTGGCTGGA GTGCAGTGGC ATGATCTCAG
35851 CTCAGTGCAA CCTCTACCTC CTGGGTTCAA TTGATTCTCC TGCCTCAGCC
35901 TCCTGAGTAG CTGGGATTAC AGGCGCACAC CACCATGCCT GGCTAATTTT
35951 TGTGTGTTTA GTAGAGACGG AGTTTCACCA TATTGGTCAG GCTGGTCTCA
36001 AACTCTTGAC CTCATGATCT GCCTGCCTTG GCGTCCCCAA GTGTTGGGAT
36051 TACAGGCCTG AGTCACTGTG CCCTGCCAGT ATTGTTTGT CAAATTATT
36101 TGTGCTGATG TTTTCTAC TGTGGTTTC TTCAGATTAC CTTGCTCTG
36151 AGCCTGCAAT TGACTCATGA ACTTCTTTT CATGTTCTAA CCTTACAATG
36201 ACTTCTTGT GTTCACTCCA AATGTTTTT CCTGGTTGCA TGTAGAGATG
36251 TATTAGCTAA GGTACATGCT TAGCTGCTGT ATCAAAGAGA CCCTAATGTA
36301 CAACCCAGGC TGGTAGAGCA GCTCTGCTGT ATGTGTTAAT TCAGGGACCC
36351 AGGTTCTTC CATGTTGTGA CTCCCCCTT CCTTAGGATG TTGCTTCTT
36401 TTACATGGCT GAAGTTGGGC CATTTCATGT CTCTGTTCCA GCTGCCTGGT
36451 AGGAAAAAAAG AACAGAAATT CAGAGTAAGC AAATTCTTT TCTATAGATG
36501 GATGCGGAAG TTGGACACAT CATTCTCTC CACATTTCT CGGCCAGAAC
36551 GTAGTCATGT GACTGCACGT CTAGCTGCTA AGGAGACTGG GAATTTACTG
36601 TCGGCTGTGT GGCCTCTGTC AAGCTAAAT TCTTATTACT GTGGAATAAG
36651 GGAAGGATGG ATTTGGGGGC ACAATTAAATA GTCTGTACCA GAGGCTAAA
36701 CAGCTGCTTT TGGCTGGCA CGGTGGCTCA CACATGTAAT TTCAGCACTT
36751 TGGGAGGCCG AGGCAAGTGG ATCACTTGAG ATCAGGAATT TGAGACCAGC
36801 CTGGCCAACA TGGTAAACCT CTGTCTCTCC TAAAAATATA GAAATTAGCC
36851 GGGCATGGTG GCGGGTACCT GTAATCCGAG CTACTCCAGA GGTTGAGGCA
36901 GGAGAATTGC TTGAACCTGG AAGGCAGAGG TTGCAGTGAG CCAAGATGGT
36951 GCCACTGCAC TCCAGCCTGG GCGACAGAGC AAGACTCCAT CTAAAAAAA
37001 AAAAAAAAGG TAAATAAAC AGCTGTTTT GTAGGTGATA CAAGGTACAG
37051 CTAAGCTTTG AAGCCAGGCC TGTAGTTCA CCTTCCATAT TCTTACTCAA

FIGURE 3N

37101 GGCATTATAC TTCTGGATCT GAAACCAGT GATCTGATGC CCTGCTTGGG
37151 ATGAGTTCTT TATATTATCT TGCTTCAAC CCACACCTGT GTAATTTAT
37201 GGGCAGCGTT TGTTCCAT ATAGGAACAA TTTGAAAGTG GGCTGTTCT
37251 AGGCTTCAT GAATAGCAGG CTATGCTGTC ATTGGGAATC TGGAGGGAGT
37301 TAATGAACAC AACTTCATTG TTTACTTAG TGAAATGTGG CAGCTTATGA
37351 TAGTTTGAC AGTGAGACAT GTGCTGTTT GATCTCTAG CTAAGATTAT
37401 CTGATTTTC AGGCATGTCT CAAAACTCAC CAGGCCCTGCTCACATGCTGC
37451 TGCTTCTGAA GCCAGGGTTT GGAAACCAGC TGCCCATCAG AATGAGGCTG
37501 TGACTTAGAA TATTGGTTCT TGTTTATTA CCATTCCTG TTTGGTCTCT
37551 CCAGAGTCAC TGGCCTTTTC CGCTTCATT TTCTTATCGG TGAAATGAGA
37601 TATTAATTCC TCTTATTGAC TTCAATTCAA TTGCTGAGTG TATTGTTGCC
37651 TTTGGGAAGT TCTTGAGTT TTCTGTGCCT TTGAAATAGT TGTTTTTTT
37701 TATTCTGGTG TTTTGAGGCA TGTTCAAGT GAGTGCATT ACACCTCTAC
37751 CATTTTAGGA GCCACAATTC AGTTATGTTG TCCCAGCTTG CTTGGCCCCA
37801 TCCCCAGAGT TTCTGATTCA GTAGGTCTGG GGTGGGGCCC AATAATTGC
37851 ATTTCTTCTT CTTTTTCGA GACAGAGTCT GACTGTGTCA TCCAAGCTGG
37901 AGTGCAGTGG CACGATCGTA GCTCATTGTA GCCTCAAAC CCTGGCTCA
37951 AGCCGTCCCTC CCACCTCACC CTCCTGAGTA GCTGGGACTA TAGGCATATA
38001 CTACCATGCC CTGCCACCTT TTTAATTTC TTGTAAGGATG GGGGTCTCAC
38051 TGTGTTGCTC AGGCTGGTCT TGAATTCTG GGCTGAAGTG ATCCCTCTGC
38101 TTCAGCCTCC CCAAATGCCG GCATTCTGG CATGAGCCAC TGCACTTGGC
38151 CAAGACTTTG CATTCTAAC TAGTTCCAG GTAATGCTGC TGCTGGTGT
38201 GGGACCTCAT TTTGAGAAC ATTGTTCTAT AGCTGTAGCT ATAGTTAGTT
38251 TCTGGTTATA GCTTCTTCCT TTTGTCCTT CAGTAATAGT GTACACATCC
38301 GAAATCCCTG TCCTTGCTCT TTCAAGGCCA GGCATGGTAT CTGGTCTCT
38351 TCTGTTGCTA GCCCTGGGGT GCTTCATCAT CCCAAGTTA TTTTCTTCT
38401 CCTAACCTGA ACCTTTGTAA ATAGCCCCCTT CCCTAATGAA CGTCCTCAAT
38451 TCCCTGTTT GCGTGTCTG TCTGTTCTT GGCAAGACTC TGGATGATTC
38501 AGTACTCAAT GAGGATTTT CGCATAGATG GATGAAACAG GCTGGGTTTC
38551 ATGTTTCTA AGATAAAAGGT GCTTCTCT TTTTCTCTTG GTCACTTGA
38601 CCAAGAAGAA AATAACAGAG TTTTATTCT CAAGAAGAAT AATATCGGGG
38651 CCACTCTGCT CAGAGGCCAC TCTGCTTGA GGACCCCTTC TCTCCTCCCT
38701 CATGCCAAAG ATCAGGAACA TTGGGCAGAG CGGATAACGA TGCCGCCAGC
38751 GTCATTACAT TTTCACGGCA CTTTCAGTTG TGCTGAGCGT GCAAACATT
38801 CAAGGAGACA TTTCTAAGAG GTGGCTAGCA CAGCATGCC CTAATGCCCT
38851 ATGTGAATTG GAATAGAGTA CTAAGAACT GTTCAATATT CACCCCATCC
38901 CCGCATATGC AAGCATGCAC GTGGGTTCAT TGTATATGTG TGTGTGCACG
38951 TGTGCACAGA CACATTTGTC CTTCGTTCA AATGCAACAC AATGGATGGA
39001 AATTGCCCTTC CTGGTACTGG GGTATGGATG CAAACACCAA CAGAGAAGCA
39051 GCCGCTACTT CCAAACGTAA CACATGTGAG ATTTGCCCTT TAATTAGCAT
39101 CTGCAGCTGC TGCCATCAGA AGGGTCTGTC TCTGTTGCC TGAAAGTCTT
39151 TGCTTTAAAAA GAGCAAGTCC ATTATAGCTC CAAGCCAGGC TCGTCTGTCA
39201 GCTGCTGTGC TTTCTCTGCC ATCAGCGGGG TTGCCACATT TTTTGGGCT
39251 GTTTCACTCT AGGACTCTTT CCTCCTCCTG TGCCCCCAGC CTTTGATTAC
39301 CATGCCCTGG TGATCCTCAT TTGGGTGACC TGCAAGCTGCT CATTGTGTGT
39351 GCAGGAGACA TCTCCAGTCC TTGTAAGGAG GGAAGATCAC TGGCTTCAGT
39401 GCTGATGGAC TGGTTATTTT CCAGCCCTTT GTCGTCAGTG ATCTTGTCTT
39451 GATATGCAGA AAGGCTCCAG GTAGTCACTG AAAAAAAAT AAGCAGCAGA
39501 GGTGATGGCT ATATGAAAGT CACGTTCAT CAAGGGCATT GCTGCTATGG
39551 AAACTTCAA TTCACCTGGA GTAGGGAGCC ATATTGGTC CACAGCCTCC
39601 TCAGCAGTGG GTCCCAACAC AGTGCCTGGC TAGCTGCCCT TGAATCACCG
39651 CAGTAGCTCC TTTTACTATA GATTCTGGG TCCCACCCAT GGAATGTGAT
39701 CCATGAAGTC TGGGGTTATT CCCTGGAATC CTTTAAGCTC CCTAAGTGGT

FIGURE 30

39751 TGGGATGGGA AAGAGATATG CTTTATGTTA CTATACTTCT TATTATTATT
39801 ATTTTAAAT TCTTGCCGGG CGCAGTGGCT CACACCTGTA ATCCCAGCAC
39851 ATTGGGAGAC CGAGGCAGGT GGATCACTTG AGGTCAGGAG TTCGAGACTG
39901 GCCTGGCCAA CATGATGAAA TCCCCTCTCT ACTAAAAATA CAAAAATTAG
39951 CTGGGCATGG TGGCGCATGA CTGTAGTCCC AGCCACTCCG GAGGCTGAGG
40001 CAGGAGAACAT GCTTGAACCC GGGAGGCAGA GTTGCAGTG AGCCGAGATC
40051 GTGGCACTGC ACTCCAGCCT GGGTAACAGA GTGAGACTTC ATCTAAAAA
40101 AAACCCAAAAA AAACAAAATC CTTTTTCACTT ATACCGGAAC GTCAGCTTTA
40151 TGAGTCGGG GATTTTTCT GTTTTATTCA CTGCTGTTTC CCTAACATCT
40201 AGAATAGTGG CTGGCACGAT AGGCACCTAA GTATTGATT AGATGAGTCT
40251 ATTTTATTTT CTTTAAATT TTTAATTTTT ATTAGAGGTG GGGTCTGGCT
40301 TTGTTGCCA AGCTGGCTC AAAACTCTG GCCTCAAGCG ATTGTACTGC
40351 CTCAGCCTCC CAAAGGGCTA GGATAGGCAT GAGCCAACAT GCCTGGCTTG
40401 TCTTATTTTT AACAAAGCACT TCTGGTGATT CTGATGGACA ATCAGGCTTG
40451 GGAAGTTCTA ACCTAGAGGA CCTACAGTTG TCTTGGGTA GAAGCCAAGG
40501 CTATCCTGGT TTTTAAATC AGTCCTTAC TGGGCATCTC TGAAGAGTAA
40551 AAGTCAGGGA CAGAGTTACA TTTTGGACA AAACCAGATG CTGTGAATGG
40601 ACTCTTGGTC ACAACCTGGG TGGCAGTTG GTCCTTAAC TCTTCATCAT
40651 TTTCTGCTGA CCCTGTTCTT TGGTTACAG CAAGTCACCT GATAAGAAGA
40701 CTCAAAGACT GCTAGTTGT TACTTTAGAT GATGTTTTG GAACCTTTG
40751 GTACCATTTT AACAAATCCAA ACGTATTTA TGAAAGCACT CAAGTCCTGG
40801 GTCTTATTG TATCTTAAG CTCTAACAGC ATGATGATTG AATAAGCTGT
40851 GGTGGCCAC ACACAAGCCA TCTTCCCCAT GGCCTCCATT CATACTAGAA
40901 TGAGCAGCTA TACCCAGTA GTATAGTTTT GGGATATGGG TAACATCTTG
40951 GGATAGCCAC ATTTACTTAG TAAATGTCG GCTTACATTC TCCTAATGGT
41001 GCACTGTTGG AATTTTGGT GTGGTAACCT GGAATAGTGT TGGTGGGTCA
41051 AGTTTGATTA GCATCTTGA TAAGGACCG GTCTATTAG AGGTTGTCA
41101 TTGAGTGTGT CTGTTTGGC CTCATGTTGT GAAGCATGCT GTGTAGCAGC
41151 TGTGTAATT TTTGTTGCTT GTTTCTCAA TCAACCCCTGG TTTTGAAGAA
41201 ATGGGAAGTT GTTCCACTCT TAGACTGATC TGACTTGGGA GGGGATTTTC
41251 AGTCAGGAA GTTGGATCTT CTGAATGGAA GCAAAGAATA CATGTCTTTT
41301 TGCCACTTTA CAAGCTGGCT CTTGTTTCT GAACATTTT ACTGGTCATT
41351 GCAAATAGAA TGTCAGGAGT AGCTGCCAA TACTAAGTTG TGTTCAGTTT
41401 GTCAGTTCTT AAGAGTTGCC GGTGGCTGCT CTGCTATGCG TATGACTTTC
41451 TCAGCCTTAA ACTTACAAGC CATACTGTTT TTTTCACATC TTTAATACAG
41501 CCATAGGAAA TTTATAACTG TGGCGTGTG TCATAAATAT GCATTGTTCT
41551 TTTTTAAGA CATTTCAGTA CTAAAAGTAT AAGTACTTCT GTTATTATCT
41601 GTGAATTTCT TCCCTTCTTC TTTTTTGGA TATTTAAGAC CTTTCGATG
41651 TCAATATATA TTTAAAACAG ACATATAAT TAGCATTAC CCACATACCC
41701 AGGGCCTATG GAGAACCAAGG TTGGGATGAG TGGGTGAGCT ACAGGCAGCC
41751 AGGTGGCTCC TGTGGGCTCC TCGAGGACTG GGGTGAGTAA CTAATGTCTG
41801 CTAGGAACCT GGGGGAAAGA AGGTGTGTAT GTTAGGTGCT GCCCCCTTCT
41851 AAGTGTTCCT CTTGTTCAT AATGATTTT TTTTTTTT TTTTTTTT
41901 TTTAGAAGGA GTCTCGCTCT GTTGCCAGGC TGGAGTGCAG TGGTGTGATC
41951 TCAGCTCACT GCAACCTCTG CCTCCCGGT TCAAGTGATT CTCCCTGCCTC
42001 AGCCTCCCGA GTAGCTGGGA CTACAGGCAT GCACCACCAT GCCCAGCTAA
42051 TTTTTGTATT TTNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
42101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
42151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
42201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
42251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
42301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
42351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

FIGURE 3P

Docket No.: CL001164DIV II
Serial No.: TO BE ASSIGNED
Inventors: Marion WEBSTER et al.
Title: ISOLATED HUMAN KINASE ...

FIGURE 3Q

FIGURE 3R

FIGURE 3S

FIGURE 3T

53001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53501 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53551 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53651 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53701 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53751 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53801 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53851 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53901 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
53951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54501 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54551 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54651 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54701 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
54751 NNNNNNNNNN NNNNNNNNNN NNNNNNNNN NNNNTTCTAA TAACTGTGCT
54801 TTCTACTACA TTAAGCCTAT TTTTTTTTT TTTTTTTTT TTTGAGATGG
54851 AGTCTTGCTC TGTTACCCAG GCTGGAGTC AGTGGCACAA TATCGGCTCA
54901 CTGCAACCCT GCCTCTGGG TTCAAGCGAT TTTCTGCCT CAGCCTCCTG
54951 ATGAGCTGGG ATCACGGGTG CCCACCACCA TGCCTGGCTA ATTTTTGTAT
55001 TTTTAGTAGA GATGGGGTTT CACCATGTTG GCTAGGCTGG TCTTGAAC
55051 TTGACCTTAG GTGATCCGCC TGCCTCGGC TCCCAAAGTA TTGGGATTAC
55101 AGGCATGAGC CACTGTGCCT AGCCTGTGAA GCTCATTCT TAAGGCTCTG
55151 ATAAATGTAT ATGTTTTAGT TTCAACCAAA AGGAAAAGGA ACGTATTC
55201 TAGATTTTG TATCTCACCT AATTTTCAT TTTCTGGAAT GCTTAATACA
55251 TATTTTTATG TACATACATT ATTTGTTATT CTTGAGCCTC CTCTTGAGTG
55301 AAAATTCGCC CTTAGATGAC TCTTGGAGCT AATTATTTT CTTCCCTTTA
55351 GCTCACTCAC TCATTCAATC ATTCAATAAC GAGTCGCTTA TCATACCA
55401 TACTGTTAGG TAGCAGGTTT ACAGGGATGA GCAGAAGAAG CAGGCCCTCT
55451 CTGCCTTCTT TCTTTTCTAT CACACTGAAA TCACAGCGCA TTGTGTGTGT
55501 GCAAAAGTAG AGTGCAGAGG GAACATGCAG AAAGGAGTTA TAGGATAGAA
55551 AAGGTAGCCA AGGAAAGCAG CAAGAACAGC ATGATTTGTT CAGGGATCTT
55601 TAAATAGCTC ATCATTGTTG GACAGCAAAG GGAGAGATGG GGAACGTGGC

FIGURE 3U

55651 AAGATGAGAT GAGAAGGGGA GCCGGGGTCA AGCCATGGAG GACGCTGAAC
55701 CCCTACAAAG GAACTAAGCC TATTGATGTG AACAGGCCAC TTATTTGGG
55751 AACACGCCTT TGGTCCAAG GGAAGAGGGC ACGAAACTTC CTTCTCTAAA
55801 AAAACAAAAAA AAAGAAACTT GCATATATGA GAAATACTTT CTTCACTTTG
55851 CAGCATGAGA AACGGAATCC CTACTAAGGA ATAATTCTC TTATTTTTT
55901 TGGAACAGCG GTTTTGAAA TTTCCAGATG ACCCCAAAGT GAGCAGTGAC
55951 TTTCTTGATC TGATTCAAAG CTTGTTGTGC GGCCAGAAAG AGAGACTGAA
56001 GTTTGAAGGT CTTTGCTGCC ATCCTTCTT CTCTAAAATT GACTGGAACA
56051 ACATTCGTAAC CTGTAAGTAG GGCTGTTTC CTTAATTGG GATGTTGGGA
56101 TTATGAAACA CTCAGAGAG ATCTGAGATT GTTCTGGCCC AAAGAACGCTT
56151 CTGAAATTAA CATAAAATAAA GGCTTAAATT ATCTACAGGA GTAGTAAAGG
56201 CTAATGATGT AGCTGTCCTT GAGTAATAAT TCTGCCTTAA AATTGTTGT
56251 GTAGAACTGG GTCATTTATC AAACCTGTG TTTATGTGGC CTTTAGAATA
56301 TTATCCCTCA GTAAGTTAGA GGCACAGATT AATGGAGTTT GAAGGTTGTC
56351 ACTTGGTTTG ACACAGTTTC TTCCAAAAAA GTGGATCTAG GTATTTCATT
56401 CACATATCAG GAAAAGACT CAGATTAGGC AACATGCCA GTTGTGTTCTG
56451 CTAATGGCTG AGTTAAACA AAAACCATAA ACACCTCCCT GTGTTTATTTC
56501 ATTTGTTTCC CTCGATAATA TTTGCTTTG CTCACAAGCA TGAAAACCT
56551 ATAATGTATA TGACAGTAG ATTCAATTATC ACATCACTTT TTATAATCAG
56601 TTAGTGCAAA CTGAATGAAT TCATTAACAA CAAAGACCTG GTTTATTATC
56651 AACAGAAACC ACACAATGCT CTTTTTCTT TTACCAAGTT GTGATCTTTT
56701 AAAAATCCTT TTAATTCTTG GATGTGTTGT TGATTGAATG TGTTCTACTG
56751 AATGATCAGC ACGGATTAGA GCCAGTAGGA AAGCAGTTT CCTGTTGAG
56801 TATGTGTTTT GTTTTGGTG ATGGAGGGAG GTTGGGAAAT GGAATCTGTT
56851 TCTAGGTGTC AAAACCAGGC TTCTGATTGG AGATGTGTTA TAATTATAAT
56901 TGCTTGACCC TTCAGCTAGG ACATAGTATG GTAAAAAAATC AGTATTGTCC
56951 AGTTGAAAC CATTGATG GTTCTCTAA CCTTCTGCTG AAATATTTAA
57001 GTAGGTAGCA TTTCCATAAA TCTTCTTGG CAAATGTTT TATTATCGG
57051 GTGGCCACAT TGCTTTATTT TTCTAAATAA ATAGACATCT CCCCCCAAAT
57101 CTCCAAGGTT CAGACCTCT AATCAGTAAT ATATTTTCAG GGCATTCTTC
57151 CTTTATGCT TTTAGAAAGA TGAAATAGAC TTTCTTTAG ATGCTGTTCA
57201 AGTACTTAAT CTTTCTTGT CTTGCCTTT TATCTCTGTA ATCTTCTTGA
57251 ATAAGCAGTT AATTTTTTTT ATTCAATGAACT CGTCTGATCA TGTCTAAGAA
57301 TGATCTCCA CTTAAGTAAG TCAGTGAATG GTGATTACCT GAGTAGAGTT
57351 AAAGTAGTCC CCCACCCCTCC TATCTGTGGC ACATATGTT CAAGTCTCCC
57401 AGTGGATGTG TGAAACTGAT GATAGTACTG AAACCCATCT ACCTTTTTC
57451 CTGTGCATAC ATACCTATGT TATATAAAGC TTAACCTATA AATTAGGCAT
57501 AATATATTTG ACTCCCAGCT CCCAGTGTAG TGGCTCTGAA GACTCACAAA
57551 ATGTATTTGC TTTAAAAAAAT TCTTTTTTTT TTTTTTGAGA CGGAGTTTG
57601 CTCTGTTGC CCAGGCTGGA GTGCAGTGGT GCGACCTCAG CTCACTGAA
57651 CCTCCGCCTC TTGGGTTCAA GCGATTCTCC TGCCTCAGCC TCCCAAGTAG
57701 CTGGGATTAT AGGCATGCAC CACCACACCC AGCTAATTTT CTATTTTCG
57751 TAGAAACGGT TTTCCATGT TGGTCAGGCT GATCTTGAAC TCCTGACCTC
57801 AGGTGATCTG CCTGCCTCGG CTTCCAAAG TGCTGGGATT ACAGGTGTGA
57851 GCCACCACGC CTGGCCAAA AATTCTTTA ATTTAAGTAA ATCTTTATTT
57901 ATTTACTTTT GAGACAGAGT CTCACTCTGT GGGCCAGCA GGAATGCAGT
57951 GGTGTGATCA CGGCTCACTG CAGCCTCGAC CTCCCATGCT CAAGCAGTCC
58001 TCCCACCTCA GCCTCTAAAG TAGCTAGGAC TACAGGTGTG TGCCATCACA
58051 CTCTGCTAAT TTTTTGTAT TTGTAGAGAC GCGGTTTCAC CAGGTTGCC
58101 AGGCTGGTCT TGAACCTCTG AGCTCAAGTG ATCCTCCTGC TTTGGCCTCC
58151 CAAAATACTG GGATTACAGG CGTGAGCCAT TGCACCCAGC CCTAATTTA
58201 ATAAATCTTT TATTTTGAA TAGTATTAGA TTTATAGAAA AGTTGCAAAG
58251 ATAGTATGGA AGAGTTCCCA CATACCCCTTC ACCCAGTTT CCCAACGTT

FIGURE 3V

58301 AACTCTTTT TATATTATT TATTTATTT TTGAGACACA GTCTTCCCCT
58351 CGCCCAAGGCT GGAGTGTGGT GGCACGATCT CGGCTCACTG CAAACCTCCGC
58401 CTCCCTGGGTT CAAGTGATT C TTCTGCCTCA GCCTCCGAGT AGCTGGGACC
58451 ACAGGTGTGC GCCACCATGC CCGGCTACTT TTTGTATTT CAGTAGAGAC
58501 AGGGTTTCAC CATGTTGGTC AGGCTGATCT CAAGCTCCTG ACCTCAGGTG
58551 ATCTGCCTAC CTTAGCCTCC CAAAGTGCTG GGATTACAGA CATGAGGCCAC
58601 CGCACCCAGC CCCCAAGTGT TAACTCTTACA TAACAGTGTG ACTGTCTAAG
58651 TGTGGTAAAA ACTATTGTG AAAACTAATA TTGGTACATT ATTGTTAACT
58701 ACACCTTCAGA CTTTTTTTGG ATTTTACCAA TTCTCCCACT CATGTCCCCTT
58751 TTCTGTTTCAGA GGAATCAATC CGTGGTACCA TATTGCAAGTT AGGGTGTGTTA
58801 TATTTGATGG GACTGGTCTT AGTTAGATA CTTAGTGTAG CTCAGCCAGC
58851 AGGTGGGATC TTCATGCCA CCGAGGATTG GTATTGTGTT TTCTGGTGG
58901 TTTTATGGCA TTTCCGACTA TGCAAGAGGG CATGGTATTA ACTTCAGTGT
58951 CTCCCTAGCAA ATTTTCTGT TTTTCAACCA CCTCTGATCC CTGCATTATT
59001 TGCAATCAAC TCAGAGATT GTGATTGAAA ACATTGCTTG ACTCCATGCT
59051 CTTTAAGCTA TTTTCTTAAC AGGTAACGTG AACATAAATT ATGCTTTAT
59101 CTAGCACTGT TTTTCAATAA CACATGTTGA GTGATTTCA TCAACCGAAA
59151 TACTTCGAAT CATTAAAGTT CCCAAGTTCA TGGATGCTGC TTAAATGCCT
59201 GGTGGTTCCA GGCTGTCGAA TATTTCTGCC TTCTGCAATA AGAGATTGTC
59251 CCTTGTAAAGA AGCAACATTA GCCTTGTGC GTTTTCACCC CCAATTCTTC
59301 TTTTTCTTGT TGTAACCAAT GAAAGGAAGT ACTGCTTAAC ACAGCAGGTA
59351 ATAATCTTCT AAAACTCATT ATCTCAAGAG GTGGTCTGG CAGGATATAT
59401 AAATGCAATT TAAGAAAGGT CTTGGCAAAT TTATGAATGA CAGAACTGGG
59451 AGTGGCTACC GAGAGAAACT AGGATGCGCC TTTGCTTGA CACTGAGGTC
59501 AGGCCTAGCT TCTGTACCC CTTGGGTCT GCCTCTGGG GTTGCTGCAG
59551 GCAGCACCCC ATGAACCAGG CATCTGACCC AGTTCCAGGA TACTTATTCT
59601 TCCAGCAAGT CGAACACTCT GTGATGAGTG ACTGCCATGC TCATGGGTCA
59651 CCAGGCTCTC ATTATTCTGT TTCATTCTCA GCCTCCACCA AGATTGGTTT
59701 TTCACTGCT TATTTATTAT TATCATTATT TCAAGGCTGC TTTCAGTT
59751 TCAGTGGGGG GTTTCTTAAG CGTACCAAGCT GCCCTGGTTG TGCAAGTC
59801 GTGATGTTTC AGATGCTGGG CCGGATTCTG GCTGTACCCA GCCTGATCTT
59851 TCTGGGCTTC AGGAAAGCTG AAGCCAATCA GAGCTCCTCT TTCACTGC
59901 TGGGATTATG CTTACCTTGC CTGGCATCGT GTACCTGCTC CCATCCATGG
59951 GAAAGTTTG CTGCTCTGGTA CTGTCTTCTA TCAACATCTT TTAAGATATC
60001 TTCCCCCGAG GCATCGTGT GTCAACGGAA CCAGCACACT TGACGTTT
60051 ATGCAAGACT GCCATATCTC AACAGTGAGA AATGCATAAT GGAAGTGGTG
60101 ATCACGGATT ATTTCTTAGG ACATTATGGC TAATGCGCTA GAGAACTCGG
60151 ATGGTCTGTT GCGTCTGACA TGGGCTTTT CTCTTGAGTT GTCTTTCTTT
60201 TGCTATTCTC TGAAAGAAC AATTCTGCC ACATGATCTT GATTTTCAG
60251 GTCCCTCAGCA TTTGTTAGCA GAAAGTACAC TTTGTTCCA TCCGGCAGTG
60301 ACTCAGTGGT GGTCCCATGC TGATGAAACG CTGAGATAGT CTTCTTCAA
60351 ATAGGTATCG TTTGATTGT TGCTGCTTAT TTGCTAGCTG GCCCTCAATA
60401 GTGACAATGA AACCTCAAGT GTATAATATG GTTGCTCACT AATCCTGAGG
60451 GAAGACAGTC TTTGGTTTGG GGGATAGGA TTCTGTGCCT ACTTAGCTTC
60501 AGGTGAAAGT CTTACAAATT TTTGTGTGA GAAATAAGCA CCATGTACCT
60551 CCTTGGGTTT TTTCTTTTT TTTCTAGTCC TTTAGTATGG TCAACAAATAT
60601 TGTGGTGGGA GTACCTATT C TGTGCTAACC ACTAGGCATT CAAGTATATT
60651 ACACATATGCT CCTTCAAAAC ACTTCTGTCA AATGTAAGGA TTATTATACC
60701 CATTTCACAG ATGTGGTTAC TGTGGTAAC TGGCCAAGGT CATAGGGCAA
60751 GTGAATAAGG GATTCTGGAT TTGGGGTGGAG GTCTGTGTGA TTCCAAAGGCC
60801 CATGCTCTTT CTACAATACT ATATATGCCT TTGCTAGTGT TATTGTTATT
60851 AGTAATAATA TTTGTGATGA TGGCAAATAA TAAACCATGT CACACTAGAG
60901 AGTGATTTAA TCTCTAGGTC TATTTAAGAA CATTGGAAAT TGCAGGAATT

FIGURE 3W

60951 GGATTTTTT TTTTTTTAA GTGATGGAGT CTTGCCATCT TTGCCCAAGGC
61001 TGGTCTCAAA CTTGTGGGCT CAAGTGATCA TCCTCCCTCT GCCTCCAAA
61051 GTGATGGGAT TACAGATATG AGCCACCATG CCCAGCCTAG AATTGCAGGA
61101 ATTTTGAAAT TGATGATTCA TTCTGATATT TGAATTTCTA CAGTATGTTA
61151 AGTGCAATGT CAGGTGCTGG TGCTGTGGCT CCATTGATGA ACACATTTGG
61201 GTATGGCCCT ACCTTCATTG AATTAGAGT CTAAGAGCCT AACCGGTCTT
61251 TTGCTTGAAT AGAGCTGTAG TCCTGTTAAA TTGCTGTACC TCCAAATGGT
61301 GGGAAAGTTA ATGCTTCGTA GCCCTCCCCT CACTAGTTA CTGAACCACA
61351 TGTGCTTGTAT TTTTTTTGA GATGGGGTCT CGCTCTGTTG CCCAGGCCGG
61401 AGTGCAGTGG CGTGATCTCG GCTCACTGCA AGCTCCGCCT CCCAGGTTCA
61451 CGCCATTCTT CTGCCCTCAGC CTCCCGAGTA GCTGGGACTA CAGGTGCCCG
61501 CCAACACGCC CGGCTTAATTT TTTTGTATTT TTAGTAGAGA CAGGGTTTTA
61551 CCATGTTAGC CAGGATGGTC TCGGCTTGCT GACCTCGTGA TCCACCTGCC
61601 TCAGCCTCCC AAAGTGTGG GATTACAGGC ATGAGCCACT GTGCCTGGCC
61651 CCACATGTGC TTGATTTTAA GCAAAATACA GACTATAGGC TGTGACCTGG
61701 TGATCTCTTC CCCACATACA GCATCCTGCT AACCTATAAC TCTCCCCATG
61751 TCTCAGATCT AGCCTGGGAA AGGACAATGT TGGATCGATG GCCCACTTCT
61801 AATCTTGGGA TTTCTAATCT CAAGATGAGT TGAGAAGACT CAGGATGTGT
61851 CCTGTTTCTT GTTTATTAG AACAGGGTTT CTCAGCCTTG GCACTGTTGA
61901 CATTGGGGC CAGATAATTG TTTGCTGTGG GGGCTGTTGT GTGAATTGCA
61951 GGATGTTGAA CAGCATCGCT GTGCTTCTC CATGGATACC AGTAGCACCC
62001 TCCCCCTGCA GTTGAACAA CAAAAATGA CTCTAGACAT TGCCCACT
62051 CCCCTTGGGG GCTACAGTCA CCTTCAGTTG AGAACCAATTG ATTAGAAGA
62101 ATGGCCAGG TTATTATCAG GAGAGGAAAC ATCACAGTAA TCTGAATCTC
62151 TCAAACTGC CACTGTTACT GTTAACGAAC AGCAAAACTA TTACGTGGAG
62201 GCAGTAGGAC CTTGCTACTC AGAGTGTGGT CCGTGGACCG GCAGCATCGG
62251 AATCATCTAG GAGCTTGTAA GAGCTTCAGA GACTCAGGCC TACTGAGTCA
62301 GAAGCTGCAT TTTAATAAGG ATCCCCAGGG GATTCTGTG CATATTAGAG
62351 TTGTGAAGGCC CTGCAAGAGG AAGAAATTGG ATGCTAGCCT CAGAGTTTCT
62401 TGCTCATCTT TGTGGGTCTT CCTCGTTTG TCTTCGGCT TAAGGTATGG
62451 GGAGGCCACT TTTGGCTCA GGACTCCTAT GGGTGAATGG GACTGCTTAG
62501 AACTGCTGGG TTTAGGCCT TGCTTGTAGG AATTAAAGC TTTCTCTTA
62551 GATGGACATT ACATCGTTCA TATACTTCAA AATGGTGGTT TGACCTAATC
62601 TCTGCCCTCT GATAGCAAAA AGATATTTCG TTGACTCCCT GAACCCCACT
62651 TTACTGTTGT CCCATATTGG ATTAAATTA AGGGTGAAT AAGTATTCTT
62701 CACTAACATG TTTATACATG TATGATATTA CCATGCCATT TATTGAGTGC
62751 CTAGTATGTG CCAGGAGCTC TGAAAGTGC TTTATGCTTA TTATTGTTCC
62801 ATTATTCTT CCCCCAACCT CTGTGAGGCA GGTCTATCA CTAGTCCACA
62851 ATACAAATGA GGTCTGGAG CCCGAAGTTG GCAGTGGTAG GAATCAAAC
62901 CAGGTCTCCC TGACTCTAAA TTCTCTTGC CTTTGTGTTT TTGAAAAAGT
62951 GGTATAGCCC ATAGCAGAAA ATTACACATTA TACAGAAGGT TATACGGCGA
63001 AAAATGCCTC CTTCCCACCC CACGCTAAC CCCTCTCCCT CAAGCGAAC
63051 ACTATTGTCA GTTCTCTATA GAACCTTCCA GAATATTCTA TGCTCCTATA
63101 ACACTAGCAC AACCTATCCT CTTAACAAACA TCTTTATGCT GCCTCCCAAG
63151 AATTCAAGTAA TTTTTTTTT TTTGAGATGG AGTTTGCTC TAGTTGCCA
63201 GGCTGGAGTG CAATGGCGTG ATCTCGGCTC ATTGCAACCT CTGCCTCCCA
63251 CGTTCAAGTG ATTCTCTTGC CTCAGCCTCC CGAGTAGCTG GGATTACAGG
63301 CATGCGCCAC TATGCTTGGC TAATTTGTA TTTTAGTAG AGATGGGGTT
63351 TCTCCATGTT GGTCAAGCTG GTCTTGAACCT CCCAACCTCA GGTAATCCGC
63401 CCACCTCGGC CTCCCAAAGT GTTGAGATTA CAGGCAGTGA CCACCGCACC
63451 TGGCCAAATT CAGTAATT TATTGGCAGG TTATTTCCC GCATCATTGA
63501 AATGAATGAA GCAATCTTA TACTTCATTG ATTTAAGCAT GGCCCTACCA
63551 TGCTTATCCT TCGAATCTGC CACTCAGCCA TTGGTTCTG ATAAGCAGTG

FIGURE 3X

63601 CTCTTCTCAA ATGAAAACCC CTTATGGCTT TTTTTTTTTT TAAACAAGG
63651 CCACAGGTGA TATCATGATT TTGACATTAT TTTTCATTT ATTGTTGTTA
63701 GTGTCTGCC TTTAGAATTG CATTATCTCA ATGGCTGTG CATTAGTGT
63751 GTGTGTGTGT GTGTGTGTG TGTGTGTG TGTGTGGTAT GTGAGCACGC
63801 ACATATTTGT TTTGGGCCCT TTTTTTTT TTTTTGAGA CAGAGTCTTC
63851 CTCTGTCAGC CAGGCTGGAG TGCACTGGCA CAATCTCGGC TCACTGCAAC
63901 TTCTGCCTCC TGGGTTCAAG CAATTCTCCT GCCTCAGCCT CCCACGCAGC
63951 TGGGATTACA GGCATGCGCC ACCACGCCCTG GCTAATTTTT TTGTTATTTT
64001 AGTAGAGACG GGTTTCACCG TGTTGGCCAG GCTGGTCTCG AACTCCTGAC
64051 CTCAGGTAAT CCGCCCCCCT CGGCCTCCC AAGTGTGGG ATTACAGGCG
64101 TGATGTTTTG GGCCTTTAA AGTTCATCTT GTTTGTGTAT TCATTTGTTT
64151 GGGGCCCTTT AAAGTTCTC TTGTTTGAGG CTTCTGTCA TTTGAAGGGT
64201 TATCTGGTCA TGTTTGTTT TCTAAGCTAG TTCCATGAGG ATCATAGATA
64251 TGCTTCTCTG TTAGGCTTGG TTGGCCCTTA AACTTGTCTT CCTTTGGAC
64301 ACTCACTTAC TTCAGGGGCA GGAGGAAGTG AGGAAGAGGA GTTGGGTCTG
64351 TTTGGAGTAT CAGCATGGAC GGGAAAGGGG GCAAGAGGGG TGGGATGGTA
64401 AAGTAGTGT GGTAGAAATT CAACTTACTA GACCAGGAGC GTGTGGCGC
64451 CACCTACTAA AACAAAAAAAG GAATAATGAA GAGCTATAGT CAGTAGCTCT
64501 TATAATCTCT TATGGGATAT GTAGGCAAAT ATTTATGTGT CTCTTCGGGG
64551 CTGTTCTGTT TTTAGAAGGT AAATGATTGG TAAGAAAAAA TAGGCCAAAA
64601 AGAGCTAAAT GCTTATGAAT TAGGATTATA GGATTTCCC CCACTAGTCT
64651 GAATTTAGAA GCTACTTCCA GAGATGTCAA AAATATGTAA TATTCTACTT
64701 TATTCCAAGA TAAATTGAGG GCAACTTATT CTAGAAATAA TTGCAATATT
64751 AAAAATATAA CAATGAATAA ATAGAGAAAT CTAGATGAAA GGAGTATGAG
64801 GATAGGGAAA TAAAGTTAGG GTTGAAGTA AAAACAAGGA AGTTCCTGTT
64851 AAGTTGCCAA AGGAAGAATG ATTTGGGACT CTCAGTCTCC CAGTGACCAA
64901 AGCAGAAAGG AGAATATAAA CAGTTACAAG AGCCCCAGTC GCATAAAAAA
64951 AAAGTCCAGA ATGCTCTGCT CAGAGGAGAC CCAATTCTT GAATACTGAG
65001 CCCTGAGGAA TTTCACCACT GGGTTTCCC TAAATGAGAC CCCCTGTGAC
65051 CTGGTGGGCC CCATCCCTCG GAAGTGTACC CTGGCATTT CATAGGACTG
65101 CTTCTTCTG GGCTCTTAG TGCAAGCCAG CAGTGAATG CCACATCCAA
65151 GTTGTGTAAG TCAATTCTAA GTGAGATAAA TTAATGCCCT TTTTGGGGAA
65201 AGATGGGAAA CAGAGTGGGT TTGTTGGAGA GCCCATAAAAT TGGAGTCTTC
65251 AACCCCTTAAAT TTCTCACTTG CGGGAAAACC TTTCACAACC AAGCAAACGT
65301 GGAAATGATT TGGCCAAAGA TTCAAAATTAA TATTAACAT CTGGGACTAT
65351 ATTCAAGCAGC CAACTTCTA ATCAATTCTA TGAGTGTGGT GATTGCAGTT
65401 ATGCTCATTT TCTGAGGGTG AAGTTGGAT AGAACTAAAA AGGGCGGTTG
65451 GCAGGAATCA AAAGAGATGA AAGCCTCAGG ACAAAAGAGTT AGAGGCCAG
65501 GTGGTTCATG ACTGAGAGTT TGGAAATGAT TTCTGGTGTG TCACTTCAGA
65551 GAAAATAAAAT ATAGCCAAT CTGTTCATCC GTGGTGTGAG AACATTCAAC
65601 TACAGCACTG GCAGTTGGG ATCTAACGACC ACCCTTCCAG CACTTCAAAA
65651 TTCTGACTTA TAAAGGACAC ACACAAAGAA CAGATAGCCA GATAGAGACC
65701 AAAATACCCA CTTTATTCTT GGCAGGGCAA GCACCCAGTA AGCTCTGATG
65751 CAGGGCTCTG GTAAATTTCGC CCATCCTACC AACAGAGAAG AATGGTGGCC
65801 TCCCCTCATG AACGGGGTCG GAGGGGGGCC TTGCCACAAC AGGGGGCTG
65851 ATGGAAATAA GGGGGACAAG AGTGTTCGGT TGGTTGAGTG CCTGCTATGC
65901 CTGTGCCTAG GCAGTAAAG GGGAAAGTTT AAGTTGGCC CTTACTTCA
65951 AGACATAGTA ATTCTACCTT CTAGTAAAC ATGGCCAAT AAATGTCTGC
66001 TTTTCATGAG CCAGATAACC TCCTTCTTCT TTATTGGAGG AGTGAGTAGA
66051 AGGGTGAGAC TAGCCGGGTG CGATGTCTCC AACCTGGCG AAAGAGCAAG
66101 ACTCCATCTC AAAAAAAA AAAAAAATTAA AGAATAAATC TTTCACTGT
66151 TGGAGAAAAG TTTTGAGAGG CCGAGGTGAG AGGATCACTT GAGGCCAGGA
66201 GTTGTGAGACT AGCCTGGCA ACATAGCAAG ACCCCTGTCT CTATAAAAA

FIGURE 3Y

66251 ATAATAATAA AAAAGCTAG CTGGGTATGG TGGTGTGCAC CTGTAATCCC
66301 AGCTACTTGG GAGGCTGAGG TGGGAGGATT GCTTGAGGCC AGGAGTTCAA
66351 GCTTATAGTG AACTATGATT GCACCCCTGC ACTCCCTCCT GGGCATCAGA
66401 GTGAGACACT GTCTCTAAAA AAAAAAAAGTT GGAGAAAAGG ATACTAAAGA
66451 GATAAAAGGG TACTAAAGAG ATCGGGAAGG CAGCAAAGAA TGAATCTAGT
66501 CTGATGTGTT ATTGGGTGTA CGTAATTCAT GGCAGGAAGGT GCTGAAAGGG
66551 AAGGTTGCCT GGGCCTACAG CAAGCAGGTG CTGATGAACT AGCTCCTTTG
66601 CTATTACTTA AATGTGTCTT GGTTGGGCCA GATGTGGTGG CTCACACCTG
66651 TAATCCCAGC ACTTTGGGAG GCCAAGGCAG ACGGATCACT TGAGGTCAGG
66701 AGTCGAGAC CAGCCTGGCC AACATGGTAA AACCCCGTCT CTACTAAAAA
66751 TACAAAAAAA GTATCCAGGC ATGGTGGCAG GTGCTTGTAA TCCCAGCTAC
66801 TTGGGAGGCT GAAGCATGAG AATTCCCTGA ACCCGGGAGG TGAGGTTGC
66851 AGTGAGCCGA GATCATGCCA CTGCACTTCC AACCTGGCA AAAGAGCAAG
66901 ACTGAGTTCT CAAAAAAA AAAAAAAA ATTCCCTGGG AATATCCACC
66951 AGGGTGAAGA ATTGGGTATA TCCAAATTCA GCTTGCAAA GAAATGCACT
67001 CATGACTAGT TGCAATTGAA AACGTTCCCT TTCTGAGTAT TTCTAGCCTA
67051 TGTAGGTGTT TCACAGATTG CTGAGTACCT AGACTGAGAG GGAGAGAAA
67101 AAACAAAGTA AAGCTAAAAT GTTAAGAAGT CTGGTTAAAG TGCAATCCAG
67151 AAGTGGGGA AAGCATCTCT AAAAGTATGA ATCTTTGGG AACACATAACT
67201 TGATTACCAA AAACCTAATA TTAAGCAGCC TCATAGGAAC ATGGCTTTG
67251 GGTATGGCGA GAGCCAGCTA GAGCTCACAT CTCCATTGAA ATCCACCAC
67301 AGAGAGGTTA TCTGCCCTAGT TGTTGGCAGC CAGACCTGG CATTGTTAG
67351 ATTGATTGAT GGAAGGCTAC TTTGGGAATG CTGGCTTCTT TATTCAATTGA
67401 CTTAAAGAC AGCATTGTA AAATTGATCA CCAGCCCCAA TCAATGTTAC
67451 CCTGAAGTAT TTTTATGACT TTTTGGGGAG GCAAAGAGAT GGGATAATT
67501 TTGATTTATT TAAGTCTATT GCAAACCTGGA ACTCCTTTGT CTTCTTTTG
67551 AACTACCTTT TTTGTTTTTG TGAGAGAGAG TCTTGCTTTG TTACCCAGAC
67601 TAGAAAGCAAG TGATGCAGTC ACAGCTGACT GCAGCCTTGA CCTCCCAGAC
67651 TCCGATGATC CTCCCATCTC TCCCAGTGC ATCACCACAC CGGGCTAATT
67701 TTTTGTATT TTTTAGAGA CAGGGTTTG CATGTTGCC CAGGCTGGTC
67751 TTGAACCTCCT AGACTGAAGT GATCCACCTG CTTTGGCCTC CTAAATGCT
67801 GGGATTACAA GTGTTAGCCA CCAGGCCGG TCTTGAACCT CGTATATACA
67851 GTGTGTTGTG TGGGCAAGTC ATGCCTGACC ACTTCCTAGT GGGAGGGGAG
67901 AAACTAGAGG GCTTGCCTGA GGCTTTAGGC AATGTAATCT GTTCTCTTGG
67951 GATCAATTAC TTATGCATAT TTAGTAGCCA GCTCTATTG CTGATCACCT
68001 AATCTGTTCT CTTCGTTCAT TCCCAGTGCAGTC TCCCATGAGA CTTCGATATG GGATATCTTC
68051 CTCTTCTTCC CATTGAGGCAG TCGGCTCATT GCAACCTCTG TCTCCCGGGT
68101 ACTCCCATCA AAATCTCTGC TCTAACATCA GTTGTAGAT TTTGCCACTT
68151 TTTTTTTTTT TTTTTTTCTG AGATGATGGA ATCTCACTCT GCTGCCAGG
68201 CTGGAGGCAG TGCCACCACAT TTTTCTCTCA GAGTTGTTCC CATGATAAGA
68251 TTGAGGGATT CTCCTGCCTC AGCCTCCCGA GTAGCTGAGA TTACAGGAGC
68301 ACCCCACAC TCCAGGCTAA TTTTTGTATT TTTTTTAGTA GAGATGGGCT
68351 TTCACCATAT TGGCAGGTT GGTCTCAAAC TCCTGACCTT AAATGATCTG
68401 CCTGTCTCTG CTTCCCAAAG TGCTGGATT ACAGGTGTGA GCCACTACGC
68451 CCAGCCACAT TTTGTTACTT CTTTCTGTAA CCTGAATGTG GAAAAACTCA
68501 CTGTCTTTCC TCCACTCTCA CACCATAACT GTCAACACCA CAGAAGACTT
68551 CTGTGACCAA ATATGTGGTC ACCACCAAGC AAGCAGTAAG TTCTGCAGTG
68601 GACACCACTA GGCAGCTCC AGTTCAAGT TGGCACTATC CGCCTGGAGA
68651 TAGGGCTCAA TCCCACAGGT GGAGGTCTCA GTCCCCAAGA ATGTCCCCTC
68701 TTCAGGCACC AGTTGCAAGT CCAGGCCTCT GGAACCTCTC GCTGACTGGC
68751 TTCAAATTGG GGTTCTGCA GCCCCCTCTT TGAGTTCAAT TAATTGGCTA
68801 GAGCTGCTCA CAGAACTTGG GAAAACACAT TTACTGGTT ATTCTAAAGG
68851 ACATTGCAAA GGATAAAGAT GAAGAAATGC ATAGGGCGAG GTATGGGGGA

FIGURE 3Z

68901 AGGGTTGCGA GCTTCCACGC CCTCCCTGGT CGCCCTCCAG GAACCTCCAC
68951 GTGTTCAGCT ATCCCGAAC TCTCCAAACT CTGTCCTCTT GGGACCTTT
69001 ATGGAGACGC CATTGGATAG GCATGATCAA CAACCATGTA GAAATGGGAT
69051 TGACGAAAA GGCTATGATC TAATCCTCAT AGGCTGAGTG GGGAAATCCA
69101 GCAAGGCCTG TTTGTTCAGA TCCTTCTGTA GCATTCAATC CTCCAGGTTA
69151 TGGGGCAGGA CCCCTTCTGA AATGGGGTCT TCTGACCTAC AATCAGACAA
69201 GGCAGAGGAA ATTTCTTTAT GGCCAGCTCC AAGTCAGAAA GGTGGGGAA
69251 GATTAGAGTC CTGCCTTGAG CAGATGAAAG GAGGGCTGGA GGAGGTCA
69301 GAGAGAGAGA TTCTGTTTT CAAGGCCCTGC TTCTAAAGCC TAAAGCACCC
69351 CTAATAACA AAAGATTGTA ACAAGGACTA TGGGAGTCAT AAGCCAGGAA
69401 CGTGGATGA AACCTATAT ATATGTATAT ATATATCTCA TAATAATTCA
69451 AACCTGTCTC CTGTTAATCC CATCCTCTCT GTTCTGTTA TCATTTCTT
69501 AGTGTAGATC TGCCCTAAGTG TAGAATTGT AGAATTGTC ATGTTGACTA
69551 TTGTAGACTT GTCTTTAGA GTTTCTAGCA CTAGCCTCTT CCACCCATCA
69601 CTATTGAGAT GATTGTATCC GTCTCAGTAC TGACACTAAC CCAGCACTCT
69651 GTTTTACAT CTGTCATCC ATCAAGACTT CACTTTCACT TTCTTCCCTG
69701 CCTCATTATT CACTATGCTC TTGGGCCATT GCTCTGGCTT CTGGGGCTTT
69751 TCTAAAGTAG CACTTTCCC CACTCCAGCC CATGAAGATA CTTTTAAC
69801 AGCTCTTGAG ATTAAATCCC CTCCGTGACA CTTTCTGCA GGAACCTTGCA
69851 AAAAAGTACT GCATCCCCA CTGGCAAAAC TTGCCATCAG CCAGTTTATG
69901 TATTCTCTGC TTTTCACACC CATATCTTGA CCTCTGAACA ACACACATAT
69951 TCTCCTCTTC ATTTATTTCAG CAGTTCTGTC TTCATAACAT TGATAAGTAT
70001 GATCACATTA GCGCTCTAGA TTTTAAGCAA CTGGAAGATA GCTATTTTT
70051 TGGTACTCTT CCTTTAAATT TGAACATAGT GTCTAATTAG TCAATTAAACA
70101 TTTTTTAAA AGGGCGAGGG ACATCATGGT AGAGAGAACG AAGTTGAACG
70151 TGTTTTGGT TGAATATTAG CGCATGCCA CTGTATTCTA GGCACAGTCC
70201 TGATTCTTAA TATCATCACA CAATAATTAT TTATGTGCT TCATCTTTA
70251 TGACACAGTG CTGGCTCTTA TTTCATCTCCC ATTTCTGCA TCCATGGTGA
70301 TGATTAAAAG TCTTAGGAGT TTTACGAGGC TCAGTATT TTTTTTTAA
70351 TATGCTAGTT CTTCATGAAT ACATTGGGTA CTCTGAAGCA TATCATTTC
70401 TGGGTTTCCCT GAAGTGGTAT GTTGCCTGGA ATGGCACATT AGGTCTAAAT
70451 AATTATCCCC TATGTAAGGT TCTTGTTTT CATTCTTCT CTTAAAAAAAT
70501 AGATATTAAA CATTAAATAA GGACAGCCAG GTATTGTTT AGGTGTTAGT
70551 GGGCTATGCT AAAAATCAA AGGTGGGAAT GAGGCAGCTG GAGCTCAAAG
70601 GAGCATGTTA GAAGGAGTCC CAAGAGGACA ATCCATTG GTTCTTCTT
70651 CCTTGTTTT TTTGAATAT TTTTGGGAT GATAATT TTTCCCTCAA
70701 AAGCTTTAA TGAATGTTAG GATTAATTTT GAGAGAGAGA GAATTATAG
70751 AAGAGAAATT AACTATAGCT CCTAAATAG CTCTTTGTT CTGAAAGCCT
70801 TGATTCTGCT ATCTATT TAACTGAAAC AAAAACAAAA ACAAAACCAA
70851 AAAACAACCT CAAGAAGTTA CTTGTATAGC CTCTGCCACT AAGGAGACTG
70901 TGTTCTGATG TTACCTCAAA CAGGCTGATT TATTAATATA TTTAAAATA
70951 TATATGGAAA TATTTTTTC TATTTTTTT TTTAGTGGCT TTTCCAGTG
71001 ACAATAGGT CTTACTATAT GATTCTTAT TTGTCATTAG TGAATGTGGT
71051 GGGTATGTGG CAGCTGGGG AGCTGATGAT TTTATAATAC TGTATCAGAA
71101 ATGATTAGTG TAGGTACTTA TTAACATATT TCTCAGACAG ACAATCTTG
71151 ACTTTAAAA CCTCTTCATT TAATTCAAAC ATCAAGTACC CTGTTGTGG
71201 CCTGTGTTAT GTTAGGTGCT CTCTTACAA GACCTATTTT CTTGCTATTT
71251 AATTATATAT TTGCTTAGCA AATATTACT CTGCACCTAC TAGGTACCTG
71301 GCACTGTGCT GTGTAAGTG GTGCCATGTG TACCTCCATC AACATAGACT
71351 CAAGATCAAT ATGATTTCAAG TGAACAAAA ATACCTTTAT TGAAGCAAA
71401 AAAAATCACA TTTTGTAGG ATCAAAAAAG AGACATT TATAAGGTAC
71451 AAGAAATAGA AGAATTATAT CCCAAGATA TATGTGATAA CATACTTGTT
71501 AGTTTTGGA CGTGACCAGA TTTTACACAA TCCTTAAAAA ATGCAGCAAC

FIGURE 3AA

71551 CAGATTTAA AGTAGTTCTC TAATCTCTCT TTCTGTGCC CATTAGATGT
71601 ATATTGGATC TTCTCATTCT GTCTTGTCT TTTGACCTCT CATGTTTCC
71651 GTCTCTTTGT CTCTGTGTGT TGCAATTGTAC ACAAAATGCTT CTTGAACTGT
71701 GGTGTGCACA TGAATCACCT GGGGACCTTG TTACAACGTA GGTTCTGATT
71751 CCATGGGTAT GGGGCAGGGC CTGAGATTCT TAGAGAATTAA AATTCTAAC
71801 AGCTCCTGAG TGGTGGTGTAT AATGCCAGTG TGTAGACCAT AGCTTAAGTA
71851 TCAAGGTTCT ATGTGATTCC CTCAGATCTA ACTGCTAGTT CACTAAGTTT
71901 CTCTTCAGCT GTATCTAGTC TGCTATTTAA CATATTCACT GAAATTTAA
71951 CCTTAAATTTC AAGAACAAAGA CTTTTTATTT CTGGAAGTTC AGTTTGGTT
72001 CTTTCAAATG TACCTGGTTC TTTTCAAG TGTCATGTT TTTGATAAGA
72051 ATTTCTACTA ATTTACCTTG ATAATAAAAAA TTTGTTTCAT GGCTCATTTT
72101 AGATTGTTCT TTTATCTGCA GTTTTGGAG GGCTAATTCT CCCATTCTT
72151 GTATCTGTTG TTGCACCCGT AAGGTGTAATG TGTTGATTT TACTTTTAA
72201 TTGTGAATTG ATTTCTGGTA GGGATTGGAA GGAGGTTGTT GGGGTGGGG
72251 TGGGGTGGGG AGAAAATCCT GTGTGCCCTG GTTTGCAAAA ACACCCCTAC
72301 AAGTTGTTCT CCACCTGCAT CTGCCAGTGC TCCAAGGGCT CAGTGATCCT
72351 GGACCACTAG TCATGATAAT TTCTTGAATT GTAACAGGAT ACTGTAAATG
72401 TGGACACTCT ACCTGAGGTT ACTGCTTCTT TCTATCTGCT TTATTTCTT
72451 CCCACTGAAG GGCCCTGGAC AAGGGTAAAC ATCTCATCAC TTTCTGGTG
72501 GCAGAAATATT TCCAGTTCCC CCACTTCTT TTGGCTTAAG GCTGTGGCTT
72551 TTTCTCTGC CTGAATGTGG CCCTAAGAAG CCCTTCTTT CAAACTTTCC
72601 TGTGTACTT GACCGACTAG CTGTCTAGAG GTTTATATCC CTAGTTTTA
72651 ATCTTGTCTG TGAATATCTT ACCTGTTACC AGCTAGTATA TTTCACATTG
72701 ACTTCTCTTT CCTTTTTTTT TTTTTTTTTT TTGAGAC GGTGTTTCGC
72751 TCTTGTCTCC CAGGCTGGAG TGCACTGGCA CGATCTGGC TCACTGCAAC
72801 CTCCACCTCC CAGGTTCAAG CGATTCTCTT GCCTCAGCCT CCCAAGTAGC
72851 TGGGACTACA GGCATGCACC ATCACATCTG GCTAATTTTT TTGTATT
72901 AATAGAGATG GGGTTTACCC ATGTTGGCCA GGCTGGCCTT GAACCTCTGA
72951 CCTCAGGTGA TCCACCTGCC TCGCCCTCCC AAGGTGCTGG GATTACAGGC
73001 ATGAGCCACT GTGCTGGCC TACTTCTCTT CCCTTTAAC TTGAAGATTA
73051 TCTGCCCTT TTTCTAATCT TAACCGCATT AAGCTGGCTT TGAGCATGGC
73101 AAGAGTTTA TAGATGAATC TTATTTATA GTACAGGATT TCAAAATCAT
73151 AATTATTTCA CTGAGGGTGG CTTTACCCCT CCATTAATTAA TACTTCTCAC
73201 TCAGAAATGG AATTCTATT TGTCCTCCTA AAGATAAATT AGTATATAGT
73251 GAAAAGGAAT TATAAAGTTC TGCTAGGAAT TAAATGATAT GATTAACACA
73301 AACATCCACA TGGATGTGTC TCTGCCCTGT GCAGGAAAGA TGAACATTCA
73351 GTACAGATTC TGCTCTATGT CACTAGCTT CAAGACCTGC AGGTTCTCTC
73401 CTAAGCATGC AATTCTGTG AGCAGTAGCA ATAATAGCAG GTCATATT
73451 TGAGTGATT ACTGTATGCT AAGAACTGTG GTAAACACTT TTATATGGAT
73501 TATTTTATTAA AACCTCCTA ATAGTCCATT GAAATAGATA TTGCCATGTT
73551 GAAAAGTGAAG GTTCAGAGAG GTTAAGTGAAC TTACCCAGTG TCACAGAACT
73601 AGTAAGTGGT GCAGCTGGGA TTTGAACTGA GATTCCAGAA CAATTGCCAT
73651 TAACCACTT GCTCCATAT TAGTATCATC TGCAAATCTC TCTCCATAAA
73701 TTTCTCTAGT CTTTATCTGA GTTTCTTAT TTCAGGAAGG AAAACTCTG
73751 TTTTTGATCC TTATGAAATA CAATTTCCAT TAAAACCTTT TTTTTTGCT
73801 ATTAAAAAAAG GTACCGATA ATTGAAACCA GACTGGATT GAGCCTGTGT
73851 TGATGGAAGT ACACATGGGA TGTGGCTGA AGTGTCAAT CTAATTTTC
73901 TTTCCATCAG CTAATTTTA AAGTATTAAG CAAGTAGATT CTGACACTAA
73951 CAGGGAAAGAT TAAATTCTC TTGAGAGACT GGAGGTGTTA AATAATTT
74001 TGGTAGTGCA CATTTCACAT CTTAAATCTT CCTCACTCTC CCACCTCATC
74051 TCAATGTACC TGAAGCTCTG GGAATGTTCT TTTGTACTTC TCAGGAACAG
74101 CCAGACCTCT GGCTTCATCT CCTCTCCCCCT CCACATCCCT TTCCCTGCTCC
74151 AATTACTTCC CAGCGCCACT TGGATGTTGT TGTCACTGGG GAACCTTGGA

FIGURE 3BB

74201 AACAGCCAGA TTTTTTGGA GTCTGTAAGC AGAAAACAGA CTGCTTGCTG
74251 CTCATATCTG GCACCCAGCT TTGTCCAGAA AACGAGGAGT TAAAAAGAAG
74301 TCTGGGCTGT GAAGGGCTGT GACAACGTGC CTAGGGGGAG CTCTAGCGAG
74351 CCCTGGCGGG CAGTGACTCA TGCTGCTCTG TCACTGGAT CAGCACTGGC
74401 CCCTGGCAGG CAGGCCGGCAG CCAGGTGGGG TTCCAGCCAG AGCACGCACG
74451 CACGGAGCCG GGAGCATGCA GCCTGCACTG CGGGGGATGT GATGCTCGGC
74501 TCTAACTCGC CTGGCTGGCC CGCCACGGAC GCCTCAGCTT GCAACCATGG
74551 TAACGTTCTT GGCAGGGGAC ACCCCCCGGGA GCCCACCGCG ATGGGCAGCC
74601 TCCTGGTGCAC TGATGGACGA GTGTCCACCT CCCAGACCGA GAGCGCTTAG
74651 TAGGTCGGAG GAAGTGGAGA GGATGTAACA CGCCCCCAGC CGGGAGTGAA
74701 GCCCTGAGGA GGTAGGAGCC GCATATGTCC ATCCGTGCAT TCCCACCGTC
74751 AGCGCGCAGG GGTGCTGTAG ATCACCGGT A GGAACTTTAT TTGGCTGGTG
74801 CTTCATTATG CTGATTAAC TGCACTGGAT TTGATGGGCA TGATTGCGCT
74851 GGGGAAGATG CATAATGAAC TAAAAAAAAA AAAAAGTGGT TAATAAGATC
74901 TCGGAGTCGA CTTGTCGGG TATGAATGAA GTAGACTGCA GTGGGTATCCT
74951 AACAGGAGTT CCAGAACCTC ACACATCCCT TTTCCTGGTC CTTCTCTTA
75001 TCCCAGGTTAA TCCACGAAAT GTAGAAGTTC CATCTTATTT CAACGATTAG
75051 TGCTAATCAT TAATAATTAA GACCTGCTG GAGGAGGGAA TCCATAGGTT
75101 TAGGTCTCCT AGCATCCTGG CACTAGCCAG CAGCTGCTCT GTAGGAGCCT
75151 TCTGGAAACA GCAGGAAGGA GCGGCTTCCC CACGAGTTCC CCAAGTGCTT
75201 TCCTGGGCCA AAGTGTTC GTTGGCCCAA GTGACCTGTT TGAGTTTGCT
75251 CTTCAGTTTA CCCCAGGCCG GAAGGCAGCC TGTCTGCGGG TTGGTGGCCA
75301 TGTGGCAGA GAAGGGGTTA ATCTCTTGT GCTGTAGGAG CCGAGGTTGC
75351 GAGCTAGATT GAAAGCAGGC GCTGCAGTGC CATGCCAGC GCCGAAGGAG
75401 TAAGACGATC TTCTCCGCAA CAGTGTGAA TCCGGCTGAA ATT TT TTTC
75451 CTCCCCGCCT CCTTTCTTGT TTTTCTTAA CCAGCTCTC CCCCCCTTCGT
75501 TCCCACCCCTC AAGTCTGACG ATGACACCTC CAATTTGAT GAACCAGAGA
75551 AGAATTCTGT GGTTTCATCC TCTCCGTGCC AGCTGAGCCC CTCAGGCTTC
75601 TCGGGTGAAG AACTGCCGTT TGTGGGGTT TCGTACAGCA AGGCACTGGG
75651 GATTCTTGGT AGATCTGAGT AAGTAAAAT TTGACTTTCT AAAGGGACCT
75701 GCATTGATGC AAGGCTTTG GAGCCAAAGG TGGTGGTGGG GGGGTGGGGG
75751 AATAGGTGGG GGGAGTGCAG TGGAGGGAAG CTGCTAGTCA CCTGCATTGG
75801 GAAAGCAGTC TACCTGTTAG GGCTTGCAG GGGTAGCCTG TTAATATTCT
75851 CATTGGCAG TGTGTAAGGT ACCTGTTCT GTCTGTGGTA TGATAATTGT
75901 CAATTGGGTA CTTGGGTTA GTTTCCAAT CTTGGTCTT CTTAAAGGG
75951 GAGAGAGTGG GAGATTTCCA GCAGTGCAGA TCCCCGGTCA AAGGAGAAAT
76001 GTGCAGGAGT TAAGATGAGC TGCCCATCTA TCTAACCATC TATGTATCTG
76051 TCTCTCAAGT GGGTGGATGG GGGTTGCTAT CTTGGCTGTA TAAAGAATCC
76101 TAAAAACCTT GTCTCATAAG CTAGAGGTTT CCTGATGGGT TTAACTGAGC
76151 TGCAAGTGGC TGAACCCAGAG CTCTAACAGA GAGATGGTGC TCGGCTCCTC
76201 TCCAAGTATG CTGCAAGATC AGGGATCTGG CAGCTGAGCC TCTCTGAGCT
76251 GGTGGAGCGC TGGCAGGCCAG AGAAAGCCCC GTTACTGTGA GCCACCAGGA
76301 GGGAGTGTGA TGTAGCCGAG TCATTGATTC ACAGAAACTG GGCTTCATAG
76351 GGGGAAAAAA AACCAAGGAGA CTAGAAAATG GAAATATAAA TATCACTGTA
76401 AACCTCTTGA TCTGGTAGGT CTTTCTCCAT TCTCATAAAA GCTATTGAAA
76451 AATGCATTAA CAGAGCACTT GGAATTAGAG GGTGAGGCT TCCAGGAGCC
76501 TCCTGGAATT TCTGAAAAT GCAGTAGCTT CTGTGGATGT GGGAGGTCAG
76551 TATCTTGCCT CATTCTCTCA TGATACAATG ACATTCTGTT TTCAGAGGAG
76601 TGAGTTCCCC AGAAGATCTT GGACTGATGG TGTTATTTC CAGCCACCC
76651 GGTCCCTGCA CTTTCAGGTT CTCAGAGGGT AATGTTGGGT TAGTTGCTGC
76701 CCACTTAGGA GACGAGCAGA ATTTGATATT CTTCTGGCA GCATCTTCC
76751 CTCTTGTGG TATTGTAGC TTAGATATCG ATTTATAGGG ATGTTATGTT
76801 GGTTCTGGA TGGTGTCTCC CTATGGGTGC TATTTGACA GTAACGTTCC

FIGURE 3CC

76851 TGAAAAGATT TCAGAGTGTT GTGGGGAATT GGGCATTGTA TACGAAATAA
76901 GGTGTGGGC TGTGATTGAA TGTGAGGGAG GTTTTATGT TGCAAGATGT
76951 TGAAGTGGTC TTTCTTGATC CCCTCTCTGG GGGCTGGGTT TCAAATTCA
77001 GTTGGATTTT GGTAGTGTAA GATGTGCCTC TCTGTCTGAT TTGCTCCACA
77051 ACCCCAAAGC AATCTGGATG GTGGTGGGAG AGGCAGAGTG CTAACTAGCT
77101 GTTGAATGTG CCATCAGATG GGTTGAAAC GGCTCAGCAG GATTGGGAGG
77151 TTTGCCATT GGCATCAAAG AGCAGGGCAG AAGCGGAGGC CTGATGTTGA
77201 AGGATGCATG GTTAGTGGGC AGTATAACCT TGACACACGC AGCACACTGA
77251 AGGTACACAG TCGTACTGGA AGGACGTGTG GAGAGTTCA GTTCTGGTTA
77301 GCAGTGGGCT GGCTGGGTC GAATGCAAGC TTGCTTGGGT GTGGTCAGT
77351 GATCTGAAAG ACGAGGGAGG ATTCGAGGGA GTTAGATTTC AGGGGAAAAG
77401 GCAGAAATGAT ATGGGAGATC TTAGGCATTG CAATTAATCT GAAGCAGTGT
77451 GTGATTAATT GCTTATTTTT CAGGAAGACT TGAATGACAT CTTCTGTTT
77501 CTCACAGAAA GCTCAGTTA GGGAGCTCTC TGACAGGGAC ATCTCAGTAT
77551 TAAGGCTGAG GCACTCGATA AATATTTGTT GATTTAATT ACCTATGATC
77601 CTTCCCTCCA GAAGTGTAA TATTGCTTAT TGTATTTGAA GATGTGCTAT
77651 CTCACCTCTG GTAGTTTAAA CTATATCCTT AGAGCACAAA ACGAGCTGCT
77701 GTTCCTGACC CAACAGAATG TTAATAAGA TTCTTATTTC AAAAAAGGTC
77751 CATGCAAATA AAACTGTGTA TTTCTTATTT GGACGATGGC ATCAGAGTAT
77801 TCCTATCATT GGGGAACCTT AACGTTTTT CAAAGCTTGG CAACGGGTT
77851 GGAATCAGAA AGATTTCTT TCATCTTGC GCTTGTATG TGTTATTGCT
77901 ATTGGACTTG GCTACTCTGC TGTAGGCAGC CCTGTGGGTG ATACCTACAA
77951 GCATCATTTT AGAAATTCA CCACCTGTT GATGTAGATG ACCCTGGACA
78001 TATCAGATTG TGATTAATTA GAAATCTAAT AAAAGAGAGG CAGTGATGAA
78051 ATTACTTAGC AGCTCCTGCA GTTTTATTGA CAAAATTTC TTGGAGAGAG
78101 GGGGAGACAT TTTCTGGGG TACCACCTT GCTGCCAGCG ACCCTGTGTT
78151 TCTTCCTGAG TTTCTTTTC TTTCTCACC ATTTTCAGCA TCACAGGTTT
78201 TTATTTACAC ACATTGATTA CCTGTGCTGT TACTCATTCT TCACACCACT
78251 GAGGAAATTG CAGATGCTGC TGTACTGTG TAGGTAATT GACCTCAGAT
78301 TTGTTACCAAG TGAATTGAAT GAAATGTTCA GAGGTGGAGC TGAATGAACG
78351 AGGAGTTTT GTGGAGAAAT TGGCAGTGAG AATGATTAA ATTCTGTGAT
78401 AGCTCCTCGT TTTTGGGAT CCTTATTTG GGACCCCAGA CTATTTTAA
78451 GCCATTGAGT GCATCATTAT TTTAGGCTGA GCAAGAACCT TGATGACAGC
78501 GTTCAATGG CTGAGGCAGA GTGGGAGTTC CTTGCAGCTT GAGTTGGTGG
78551 GAGCTGGAGA GTTTCTAGAG AACTAGGTT GGTTGTCTT GGGGTGGGGT
78601 TATGGTGAAA TTAGTCTTGG AGAGTGAGTA GCTGTCTGAT GCTTCTTTTC
78651 CTTTTAACCC AGCAAGAGCC CAAACCAAAT CCCAAGCTC TGAATGCCTG
78701 GCTGTTCCCTC TCAGCCTTTT TTTGCTTGA CTTGACAATA GTAGGGTAGT
78751 AACAGGAAAC AGCATGTTAA AGTTTTAAAA ATAAAATAGA TCTCAGCTCT
78801 TTTCCTTCCC ATTAGCAAGG GGTACATTTA TTTAGGTTTT TCCTTCTAGA
78851 TTGAGGCAGT GCCTCATTAA AGTTCTTGGT GAAGCCATGC ATTTCTGCAA
78901 ACCATAAGTA TAAACTCTAG AACGGGGTG TCCAATCTT TGGCTTCCCTT
78951 GGGCCACATG GGAAGAAGAA GAATTGTCTT GAGGCACACA TAAAATACAC
79001 TAATGATAGC TGATGAGCTA AAAAAAAA AAAACTCATA AAGTTTTAAG
79051 AAAGCTTACA AACTGTAAAG TTTTGAGCCA CATTAAAAC CATCCTGGGC
79101 TGCATGCAGC CCCCCGGGGCC TTGGGTTGGA CAAGCTTGCT GTAGAAGGTA
79151 AAAATCAGTT GGTTTATGT TTTTGTTTA AACATGCTGG TTGTATGCTT
79201 TTGGAAGAGT TGGGAAACAC TGAGGGTAAT GGGATCTTGA TGGGGCTGG
79251 ATTTGTGGGA AGATGGTGTG TGGGTAGGCT GTTTTATGGA AGGGGCACTC
79301 TCTTCCTTTT GATTCAAGAGA TTTTCTCTT CTTTCGGGT GTTTCTGAAA
79351 ACACAGCGAT GGATCCAGGC ATTCAAACAC CATGGAGGAA GGAAGAGTGG
79401 CTGTTGCCAT TGCTTCCCAGA GTTTCTGGG AACCAAGTTT TGGTGCCTCT
79451 TCCTTGCTCT ACTGGGGCTT CTCTGCATGT CAGTTCTTC AACTGCGAAG

FIGURE 3DD

79501 TGGAAGGACA GCGATACTTT TCTTACAGGA CTTTGCGGG GATGGATGAA
79551 ATACGTAAAAA CACTGGTCT AGTACCTGGC ACATGGAAAA GCCTTGGTAA
79601 ATGTTCACTG TTGTTATTT TGTTATTACT AATACACTAG TCCATGTATG
79651 TATAGTGTCC TCCTATACAC ACCAAGAGAA TATGGAAAGG ACTCAGCAAT
79701 GATTAGGTAG TCCAAAGTCA TACCAAGATTG GAAACCAAGC TTCCCAGGCC
79751 CTGGGACTTT TCTGCTAGAG ACACCTCACG GTTCTGACCA ACTACAAAGA
79801 GTTAATATGC AGTTGCCAAA TACCTGTTGG TAAAAGGTGG ATGTTGGGG
79851 GGAGTGGATT GGGGAAACAGA ATTAGAAGGT CCAGTCCCAG AATGGGTACC
79901 TTCCCACCAA GTTGAACAAAG TCAAAACAGG TTATGTTGAA ACAACTGAGA
79951 GAAAGTAAAG CAAACACCAT TGCTGCAGAA TATCATGGTA CAAATTGGAC
80001 ATCTTGGGA GTTAGCAGGAG TAAGGAAAAA TCCAGTGAGG GACGCTTAAT
80051 GGGTAATGCC AATTACAAT TCTTGTAAA TTACATTGCT GATCTTCCTT
80101 GGAATGTCG TCCATTCCCC CAAGTAGACT GTGATCTCAA GGCAAGGCTG
80151 GGTCTTATTC ATCCCTGGTT TCCTGGAGCA GTAAATACTT GTGCTGGGAC
80201 TGGGCTTATA AGCATACTAA TGGAAAGTAA ATATTTGGG TTGGTTTTTT
80251 AAAAAGACAG TGGATTTGGA TCAGTGGAGA GGAAGGTAGA GGGAAATTCA
80301 GGTGGGCAGG GTGCTAACAA CAGCCCATCC TTACAGGGCA CCAACTGTGT
80351 TCTAGGCTGT GTTCCAACCA CTTTACACAG ATGAATTCAT TTAAATTGCA
80401 CAACCAGCCC AAGAGGAAGG TACCATTATT ATTCTCATTT TGGATGTGAG
80451 GAAACTGAGG CGTGGGGAGA TCAAACAAC TGCCTAAAGT TATGTAGCTT
80501 TGAGTGGCTT AGCTGAGATT TGAAACCTGT GGGTATAAAC GCCACAGATG
80551 GGAAATTGT GTGGGGTACC CAGGTTCATG TGCTTGTAG AAGTGGAAAGC
80601 TATTTGTTAGA GAATCACGAA TGATGAGGTT GGGGCAGGGT GTGATGGGAG
80651 CTGACAGGCA GGTCTAAATG CTGGGATTCA TTTTCAGTCT CTGTGTTTAT
80701 TGAGTAGGTA GACGGTATAG CTCTTGATT TCTCAGATT TTTCTCTTT
80751 TCATTTAGAG ACTCTTATCT GGTGTGTG TGCCCGCACA CATACATAAA
80801 CCCACGCGTA TATACTCTT CCTCTGAATGT TCTTATTTC TAAAGCTAA
80851 GCTTGGCAAA GAGAGGAAAC TGCACTGACC TTACTCTCCA CCATATCTC
80901 AGGCTGATCA TACACAAGTT GCTTAATAAG CATTGGTTA ATCCATCTAA
80951 ATCATTCTTA TGGCTGCAAC TCTCATTTC TTGATGACTC TACTATCTAT
81001 GTCTATTCAAC ATCTACATT TGACTTTG TTTGCCTCCC ATCTGCTCTG
81051 GGATGGCTGA TACCAAGTGA AGACAGCCTG AACTCTCCA TCAGTCCTGT
81101 TTCTTTTTA TGAAATACTT GGAGGTTGGA GGATCTTCCC TAAAAAAGTG
81151 TTTCTTTTC TACATCCAGC CAAAGGCTCT TGTCCTTGT GCTTGCTACC
81201 TAGATCCCTA TTGGAAAGAG TCTTGCTGC AATTGATT TTTAAATAGC
81251 AGCAATAACA GAGTCGTCTC TGCTACACGA AGACATGCAT CTGCTGTATT
81301 TCCCAGACAA GTTCAAAAC CTTAACTAGC TTCTGCCAT GGTTATTGCT
81351 CTCAGTGCC TTGTGTTGTT CCCATCCCCT CATTATCTGG ATTAGATGTT
81401 TAAACATTGC CTGTGTTGTT TGTTGGAT TTTCTCTCT CCTCTTGCTC
81451 ATTCAATTTC TTCTTCTCT TAGCCAAGCA CAGCTTGTTC TCCTACTTGC
81501 CTTATTCTGT TCTCTATTAA GACTGTGCGT GCCTGCCTTG CAGCCCTGGC
81551 AGGACCATTCA CACCGCCTTC TCATTGTCT TAAAGATACC TTTAGGAAAT
81601 CTAATCCAGA CAATCCTAGC CCAGTCTGA AGATTAGGCT CCAGAAGATC
81651 TGTCAGTGT GTTTTTGCT GGCCTACACA TGCTAATTG CATGGTTGCC
81701 TGGAATCCCT TAAGAAGACA GTCATTGACT AAATGGCGCT ACATGTTCCC
81751 AAGCTCTGCG CCAGTCTGGC AACTCTCCT TTGTCTACGT GAATTCTCC
81801 TAGTTCTTC TGCTTGCTT GCTGTTCATC TCCTGACCTC TCTCCGACAA
81851 ACTTCCTGAA AGAAGAGCCT GCACTCAACA CCTCTTTTT CCACCTCTTC
81901 AACAAACTG AAATGACTGT CTCAGAAGCC GTTGATTGTA CCTAACCAACC
81951 AAATCTGGTG ATTTCCATCT CACCACGTGA TACCATTAAT ACTACCTTT
82001 TTCGAGACAA CGTTCTACTT TCTTCTCTC TGTATTATGG ACACCTGGTT
82051 TCCCTCCTAC CTCTCTGACT GTCATTCTCA CTCTTTGTG GCTGCCATCA
82101 GGCTCTTGCA ATGTACGTAC CATCTCCTCA AGTTCCATCC TCAGTTATCT

FIGURE 3EE

82151 TTCTAGTTGG TTCTTGGTGA TCTCATTCAAG TTCCCTTGACT TTAGTTCTTA
82201 CCTCCCCATG GCCTCCTCCC ATCGTACACT GTGTTCCCTCA TCACCAGGAT
82251 GTTTTACCAAG TTTCTCACCA TCCCATCCTC TGTTCCCTTC CTACATAGAC
82301 AGACCCACTC GCTCACTCAAG TAAGCCACTA GGTGCTAGTT TTGGCTTCTT
82351 CATTTTATGT AAGAAACTAC CACCTTCCCT ACCCTTCTAG GCAAGAAAGC
82401 TGAGTCATCG TAAATTCTTT TCTGCCTCCC CCGCCATCCC ATCAGTTGCC
82451 AATTTCCTCCA AGTGGTGCCT CTAGGATGCC ACTTGATCC ATACCCATCT
82501 TTCTTCCTCA TTGGCACCCA TCATGGACTC TTGCTTGGTC TGGTGCAGTA
82551 GCCTCCTCAAG TGATTCCTT GCCTCTGGTT TTCTGGTG TAATCCATT
82601 TCCACAAAGG GTGGAATTCT TCCAAAGCAT AGGTTGGATG ATGTCATTCA
82651 CCGGCTTACA CCTTCAACAG CATCCCAGTG TGCTCATAAT TAATGGCTGC
82701 TCCTGAACCT GGTATTCACT CTTGGTATGC CAAGACCCA GCCTGCCGGC
82751 TCATTTGTGT CTCCTCATCC CCTACTGAAT CACTTCATAA GTGTTGTCTG
82801 GCCAAGCTGT TCAAGGCTCA TTAAGGACAG GACCAGGTCT TCCTTCTTTT
82851 GCCTGAAACA GTGCCTTGCC CCTGGCAGGT CTTCAATGAA CATTGTTGA
82901 ATTGAATTAG ACTAAAATGG CCAGGGATTA TACCAATTCC TTCTGCACAG
82951 TGTAGACAAAC TGCTAATGGA ACCTGTTTC TGTAGAGCAC TTCTTGTGTT
83001 CCCAGAACTA TGCGAGTACT TTATGTGCAT TATCTCATTAA AATCATCACA
83051 ATCTCACTGT AACTCTATGA GGTAGCTGAT ATTATCCCCA TTTTACAAAT
83101 GAAGACACTG ATTCAAGGAAG ATTAGATTAT TTTCCTGAGG TTCTGAAGGT
83151 AGAAAACACAT CTAAGACTTG GAGCAATATC TGTTGCCTC TAGACCACGT
83201 TACTATCTAC CCTGCCTCTA AGAGCCATGA CTTTGTAGA TTATGCAGGA
83251 GTTATGGACT TGTCTAATAG TAAAGGTAAA AGAATTGGTT TTAATGAGAA
83301 TCTACTCTTC TAGGTACTAT TCTGAGTGCC TGACAAGCAT TCTCATGTAG
83351 ACCCAGCAAT AACTCATTAT TTTACAGATA GAGAAAATGA TGATCATGAT
83401 GCTTGGGTTA CTTCTTAGGT TCACTCAGCT CACATCTGGC AGAGGGTGGT
83451 CAACTTTTCC AAGTTTAAC TTATTTATTT ATTATTTTG AGACAGAGTC
83501 TCATTCTGTT GCCCACGCTG GAGTACGGTG ACACAATCTC AGCTTATTGC
83551 AACCTCCGCC TCCCAGGTTTC AAGCGATTCT TGTGCCTCAG CCTCCCGTGT
83601 AGCTGGGATT ACAGGTGCCT GCCACCACGC CGAGCTAATT TTGTTTTGT
83651 ATTTTAGTA GAGGCTGGGT TTCACCATGT TGGCCAGGCC TGTCTTGAAC
83701 TCCTGACCTC AAGTGATCTG CCAGCCTCGG CCTCCCAAAG TGTTGTGATT
83751 ACAGATGTGA GCCACACAGC CTGGCTCAAC TTTTAACCTT AGAACTGATA
83801 TAAACATGCC TATTTTTTG GGAUTGACTG TAGCATACCC ATTCAAAGTC
83851 CAGGCTTTGG AATCAGACAG ACGTGGGCTG AACTCAGGGT TTCAACCCCTT
83901 GCTTGTGTTG TGAATGAGAC ATTTCACTGC TTTCAGCCTC AATTCCCTCA
83951 TCTGTAAAGT GGAAGGTGTA AGGTGCCTA TCTGATAGGT TTGCCATGGG
84001 GATATGAAGC ACACTTAGTG TTGGTGCCT GAGTAGAATG AGTGTTCATT
84051 TCATAATTGT TAATGTTATT TAGGTCCGAG GATGGGTATG GGGTGCTTTG
84101 GACTCTCTT TTCTCCCTGC TTCCGCCTTA TAAAGACATC TTGCTGGTTT
84151 CTGCCATTG AGAGAATCCA GCTCCACGTG GGGGGCCTGA CAGATGTCCT
84201 AATATCTCCA TCCAATTTC TACTCTGAAT GGAGTCTGTG ATGTATCACT
84251 TCAACCTGCA CTTTCTATAA AATGCTCTCC AGGCTTCTGG TAGGATCCAG
84301 TGCCAGTGGG AAGTGTGCAT GTTCCCAGCC TAGATGTCAC ATGCTCCCAC
84351 CCACCCCTGGA AGCACTTGGG TATCCCCTGG ATGGGTAAGT CTGTGTGTCA
84401 TTGTGCCATT CCTGTCTCAAG AACCAATGCT GGGCATCTCT ACTTGCAGGT
84451 GCTGGAAAGC TTTTCATGC CAGCATACT GCAGCACACT TCTCATTITG
84501 GATTCTTTA TCCCACGGTG ACCTTTAAC AC TGGCTGCCTG GGGGCACAGA
84551 AGTACTAGCA CACCATTCACT TTATTTATTC ATTCAATTCA TCATTCAATT
84601 ATTCACTCAA CAAATATATT GTTCTAGTCC TTAAGGCACA ACTCTGAGCA
84651 AGACAGGTAA GGTCTTTACT CTCAAGAAGC TAGCATTGG TGGGGAGAAA
84701 CAAAGGAGAA ATAACACTG TGACATGTG AGGCAATTGC AGATGGTGGT
84751 CTGCAGAATT GGGATTGAGA CTGCCTGGGG GTGGCCACTT TAGACTGGGT

FIGURE 3FF

84801 CCGCAAGGAA AGGTTCTCTG AGCTGAGCAT GAGTATTGT TCAAGAAGGC
84851 TGAGTTGCAT CCCAAGGTGA CACAGCTTT AAGCCCACAC TGAGCAGCTC
84901 TGAGGTCTTA GGGGCTGTTG GAGAACCTGG GATATAGCAC TGACTATGAG
84951 ACAAAAATCC CTGCTTCAT GGAGCTTACA TGATGGGGC AGATTACAT
85001 TCATTCTATT GTTCATTAAT TCATTAATT ATTCAAGCTAT TTGAGAGCCT
85051 ACTATGTGCC AAGCACTTC TAGGCACTGG AGAAGTAACA GTGAATGCAA
85101 AGGAGCAAGC ATCCCTGCC ACACAGAGTG CATTCTTCA GAATATCAAT
85151 AAGGAGTCGG TTAGCAAAAAA TAAGTGGAA GAGTATTCCA GAGAGAGGAA
85201 AAAAGGGCAA AGGCCCTGAG GCTGCCACTA ACCTATGGGT GCTCAATGAA
85251 CAGAAGGCAT GTTGGGTAG GGGGTACTTA AGGATACACA AGGAACATGG
85301 TCTGAGCTGA GGTCTACAGG GCCTTAGGT ATGGACTTTG CTCATAATTG
85351 CACTGAGTAG GAAGCTTTG CAGGATTTG ATAGGGTCA TGGAAATATCT
85401 GGGTCTTATT TCACAAAGTG TGCCCTGAC CATTGTGTGG AGGGTGGATA
85451 GTGAGGGACA AGAGTTGGAT CCAGGGAGGT AAGTGTGGTT ATTGAGTC
85501 TCCCAGGTGA GAGGAATGA AATTAACTG CAAAGTGAGG CACTGGCTTA
85551 GAGGTGGGAA CTGAATTAAA AATCATGGGA CTAGCTATT CTTTATTAAAT
85601 AGCATGATT TTGATAAATG ATTCTGGAGC TACATATTAA TCATTTCAA
85651 GCAAGTGCTC TAATTTAACT AGAGACCACT GCTGGTTGTG TGTGTGAGTG
85701 CATATGTGTG TATGTATATG AGTATGTGTG GTGTGTGTCA GTATGTATAT
85751 GTGTGTATGG TATATATATA AATATATATA TTGTGTGTGG TGGGGGAGGG
85801 GGGGTGCCCA AAAGCTAGAC AGACTCTGAC TGTCTTTAGG GGAATAGTGT
85851 TTTTGATATT TCCAGGTGTT CCTGATGGG ACCATTGTTA TTTTATTAA
85901 TTTTTATTAAATTTTGAGA CGGAGTCTCA CTCTGTCGCC AGGCTGGAGT
85951 GCAGTGGCGC TATCTCGGCT CAAGACAACC TCCGCCTCCC AGGTTCAAGC
86001 AATTCTCCTG CCTCAGCCTC CCGAGTAGCT AGGACTACAG GTGCGTGCCA
86051 CCACACCCGG CCACCATTTGT GTATTTAAA GTGTGCTTAT AAAATTAGTT
86101 CAGAGCCAGA TGTGGTGGCC CACGCCTGTA ATCCAAGCAC TTTGGGAGGC
86151 CGAGGCGGGT GGATCATGAG GTCAGGAGAC CGAGACCATC CTTGCCAACG
86201 GGGTGGTGAACCCCATCTC TACTAAAAT ACAAAAAAAAT TAGCTGGTA
86251 CAGTGGCGCG TGCCTGTAGT CCCAACTACT CCGGAGGACA AGGCAGGAGA
86301 ATTGCTTGAA CCTGGGAGGT AGAGTTGCA GTGAGCCGAG ATCGCACAC
86351 TGCACTCCAG CCTGGTGACA GAACAAGACT CCATCTCTAA ATAAATAAAT
86401 AAAACAAGTT CACAAATTTC GGAATGCTCA ATCTTAAAG CCAGTATATT
86451 TTTGGAAACG GAATGCTGAT GAGTTTTTA TTTTTTGAG CATATTACAT
86501 CTTGCAGTTG CATGATTTC TAGTGTGTG GCCCAGCACT AAAGGTGGGG
86551 CCCTCAGCTG AGCTAATTTC GAGTCCCCCTC ATTGTTGGCTT CAAGTATACT
86601 CATTCTTGGT TTTCCCAAGA ATATCTGGGAA TTTGTGATCT GTGTTATCTG
86651 TGTTTGGTG TCGTATTTCAGG CAGGCATAGG GTCCTATTCC TAAGGGAATA
86701 AATGGATGGC TTGATGCTTA AGCACGAAC TAATCATCGC AGTAGTGATT
86751 AAAGAGTATT CAACATGTAC ACTTGCTTGT AGGAAGGAGT ACACATTGTA
86801 TTCTCTTTTG ATATGCAATA TTTTATTTCAT AGCCCTATTA AGTAATTTTT
86851 TTTAACAAAG TTATATGGAT TATTTCAGG TACATCACGG GAAAACGTCA
86901 TTTTATAATT TTCACTGAAA TGTTGAGGTT ACATGTAAG CAATTTTAT
86951 GTCATATCTG ATACATTAAAG AAAAACATG TCTTCCTGTT ACAGCGGTAA
87001 TGACCATGCC TGCTCTTCT TCTGTGTCT ATGCCATTAT CCCTATTAAAT
87051 ACTCTTTGGG CTTCTATAAT TATAAACAG TATGTGTATAT CAGGGAGAGA
87101 TGTTGATTTG AGAGTAAGTT TTTCTAGAAA ATAGAAGCTG GAAAAAAAAG
87151 GAAAACCCAA ACTTGGCTTC GTGCTCGAAG AGACAGCACT GCTGTGTGTG
87201 GCGGGGTGGC TGCCTGCACC CGCTGCTCAG AAGTGCCTT TCTCTCCATG
87251 GGGATAACTG GCTGTGTATC CGAGATGTGG CCAGGAGTAG GCAAGCAACG
87301 TGTGGGCAGG CTGCATGTTCT TTTTATTAGC ATCTTCATTG TACTGCATCT
87351 CGTCGAGCCC AGAGCATGAA CTGGCCTGGG TTTCTAATAT CTACCCCTGCT
87401 TCCCACCTAA TTACTCCCCCT GAACCCTAAA GTGAGGGAGG GAGAGTTGCT

FIGURE 3GG

87451 CTTGTGGGGT GAGCTTTCCC TGGGGTGGCT GTGAACCAAC CTGGCATGTG
87501 GATGTTCTTG GGTATCCAGA GCTGTCCTGG ACTCAGGCTT GGAGTCAGCT
87551 TCTTAGCACT GAATGCAGCC AGTCATGGAT GGAGGTCACT GTATCTCACA
87601 TGTTCCGCTC TCCCCTTCTT CCATGACCTT GCCCCTCTGA GCCTCTGTAG
87651 CACTTTCTT GAGTGTGTCC AAGGCCATCT AGCTAAGAAG TAGCAGAAAT
87701 GGGATTGAA GCCATGACTG TTTGGTGATA GAGCCTCAGC TTTGAACCTGG
87751 GGTCTACTG CCTGGCACCC CTGCACAAAT CATGGTAACG TGGTAGGAGA
87801 ACATAGAGGT ATAGGGCAAG CCCCTCCTTA ATGCCATGAA TAATACCCAT
87851 CTTATAGGAT TGTGGGGAGG ACTCAGTGAA GTAACCCGTG AAGCACTAAA
87901 CACGTGCGCTG ACACGTGCTC AATAAAATGAG CACTTGTCTT GATGACAAAG
87951 GTCGTGGCAT TAATTCTCTC TCCTAGGTTG TTACTTCCTT GAGGACAGGA
88001 ATTGTGGCTT CCTTAATGGC CACTGCAGCA GAGTTCTCA AGTTGGCACT
88051 ATTGACATTG TGGGCTGGAT AATTCTTGTG GTGGGAGCTG TCCTGTGGAT
88101 TGTAGGATGT TGAGCAGCAT CTTTGGCCTC TACCCGCTAC ATATTAATAG
88151 CACCCCTAGT CATGAAAATA AAATGTCTAG ACATTGCAA ACTGCCCTG
88201 TTGAGAACCA CTGGCTGCA GGTATCTCTC ATGGGGATCA CAGGGCTTTT
88251 ATATTCTCTT CTCTGTCTCT CTCTCTCCCT CTCTGGGTGT CTCTCTCTCT
88301 CACACACACG CTTAGAGAAG GTGGTTAAAA AAAATTTGT TGAAGTTTGA
88351 GAATTTTGAG AACAAAGGAA AAATTTGGA AGGCATTTA ATGAACAGAT
88401 AGACTCTGTC CCATTCATG GTCAACAGAA TTTCATAATT AGATAGTTG
88451 TTTACTGCAA CTCTGCACCC CATTGCCAT CATTAGAG TTCCAACCAG
88501 TTAGAGGATT TTTCTTGCAA ACTTTCTTA AAGCAGTGT AGTATCAGCT
88551 CTTAAATAA TACTATGCTT GATGAAGTGG TACTTTTCGG GATAATTG
88601 GACCAGCCGA CTTGCTGCTT GAAGAGGACA GGGCTATATT TGGTAATAAT
88651 ATATATGTGA TAATATGTAT GTAATATTAT TATAATGTAA TATACAATAA
88701 TATTTGGTGT AACTGGTGAC TCTGAGGCC GTCTTGATC GAACCTCTCA
88751 AGCTATGATT TACATTATGG TCAATGTTAG CATAATGCAA TTATCAGCAA
88801 TCACTTGCTG TTGCTTGAAG AGTCAGAAGG ATGGCTAATA AAAATCTTAG
88851 AAAAAGAAAAA CAGGCTGGGC GCAGTGGCTC ACCCCTGTAA TCCCAGCACT
88901 TTGGGAGGCT GAGGCAGGCA GATCATGAGG TCAGGAGATC GAGACCATCC
88951 TGCCAACAT GGTAAAACCC CATCTGTAAGA AGAATACAAA AAAAAGAAAAA
89001 AAATTTGCTG GGCCTGGTGG CGTGCCTG TAGTCCCAGC TACTCGGGAG
89051 CTGAGTCAGG GGAATCGCTT GAACCCGGGA GGTGGAGGTT GCAGTGAGCC
89101 GAGATTGTGC CACTGCACTC CAGCCTGGT ACAGAGTGTG ACTCCGTCTC
89151 AAACAAAACA AAACAAAACA AAAACAAAAA AAAGAAAATC TTAGAAAAAG
89201 AAAATAAATT GTAATATTT AGAATATTG TTGGGGAGGA TATGTGTGCT
89251 CAAGAAATAT ATACTGAGAA CTTACCATTG ATGCTAGAGA TTGAATTGCC
89301 CCATGTCTAC ATGAAAAATG AATAGAATAT AAACATTTA AATTGAGCCA
89351 TGTCTATCTG TATTATATT CTTTTATAGA ATTGATGGA AATGGTATAT
89401 TTTAAGTGAAT TTATTAACAC TGGGGACAAT AGGCTTTAAT CATTATCTAA
89451 TACCTGTACG TTGTTTTGAA ATTGATAGCC CACCACCATC AATTTCAAA
89501 TTGGGTTCTT ACTCAAAGAG TGATGAAAG GCACCAAGTAC CAAATGGTCT
89551 GGCCAAAATG CTACATGGAA CTAATGCTG GGGATGGTCA TACAATGAGT
89601 TTTAAGTGGC TAGACCCCTAA ATCAGAAGCA CTTTCTCTA ATTGACCCA
89651 TGTTCTTAA TCCTTTCTGT ACATTACAAT CGCTCAGCAG CTTAATACAA
89701 ATGTTGCTTC CGGGGCCAC ACTCCACATC TTTCTGACTC TCTGATTTAA
89751 TTGGTCCGAA TGGGGCCTAT ACATCAGGTG TTTTTAAAAA GGTCTCCAAG
89801 TGATTCTAAT GTGTACCTGC ATTGAGGACC AGGGAAGGTG TAGGAAGCCT
89851 GATAACCTTT ACTCTCCAGC CTCATCCTCC AATCCCAGTGA TTGTTTATGG
89901 GATTGTTGCT ACACACCCAG CTTAGTCATA GCATTCTTAC TCTAGCTTTT
89951 TTTTAGATGC AATTTTATT TATTCTTAA GAAAAGATT TCTTTAGCAC
90001 CTTTATTCTA AAGAGCTCTT AATTGCTGTG CTTAGAACTT CTAACAGTG
90051 AGCATTGTC AAACATAGAA TAGCAGAATG AAGGGTTGG ACCTCGGGTG

FIGURE 3HH

90101 AGGAGGGCTG TCGCATGGTC TCTTTCGAGT GCCGGCGGGT GGGGGCTGCA
90151 CATCTCCTCG CTTCTGGGCC CATTGATAAG TGACCTAAAA GTGCCTTCG
90201 TTTTTTTTGG TGGGGGGTGA AAAAGCAATC TGTTTTGTAC CCACAGCGGT
90251 GCACTTTAAA CAGGAAGCCC TACTGGGGCC AGCCTTCTAT GTGTCATTA
90301 GTTTTCACG CCACATCCTA CCTATCATCA TGCACCCATG TCATCGTTCT
90351 TTTAAAGGGT GCCAGTTTT TGCTTAAGCA CAAGGAGCTG TGACCTGTGT
90401 TGTCATCCCT GATGCATGTC ATGCATGTGA CTTCATGACA TGTGGGTGAC
90451 TTTTGATCTC TGAGGACCA GGGACCCAGT CTGTGGATCA CCACTCTCTC
90501 CGTGGGTGGT TTGGGTCTTG TTCTCTAGCC CACCCAGCCA GGTGCAATT
90551 GGAATAAAGG AAATAGCAA GGAATTTCGC TCAAGGCCAT GCCAAGCATT
90601 TCATCTCATA TGAAAAGGAA AAGAGAGAGA GTGTGTGTGT GTTGGCTAGA
90651 TTTAGGTAGA AAACAGGCTG GTGAGAACG TAGAACTTGG TTAAAATTT
90701 TAGCCAAAAG TAAGATTTTT AAAAAGATT ATTTCGGAT CCAATCCCTG
90751 TTGCCCATTT CTATGAATAA TCACCATTG TTTTAATGTG AATAATAGCA
90801 CACAGCAAAT TCAGCCCCCT GAGTTTACCA ATTTCAGCA ATTGCTTTAG
90851 GCCCGTGAGG CATGTACTAT TTATGAAGTT GCATGGGTAG TAATGGAAA
90901 CACAACAATG ACAGTAGTAA CAGGTGACAT TTGTCGAACA CTTGCAGTGT
90951 GCCAGGCACT GTGCTGAGAG CATTACATGC ATTATTCAT TTAATCCTTC
91001 CAAGAACTCT TTGAAGTAGG TTGGTAATTA TGGCCATTAA ACAATTGAGG
91051 AAACTGAGGT TCGGAGATGT CAAATAACTA GTCAGTGGTG GGGGTCA
91101 TTTTCTTTTT TTTTTAAATT TATTGCTTT TTTTTTTTT TTTTTTGAGA
91151 CGGAGTCTCA CTCTGTTGCC CAGGCTGAGT GCTGTGGTC CATCTGGCT
91201 CACTGCAAGT TCCGCCCTCC GGGTTCACGC CATTCTCCTG CCTCAGCCTC
91251 CGGAGTAGCT GGGACTACAG GCGCCACCA CCAGGCCTGG CTAATTTT
91301 GTATTTTAG TAGAGACGAG GTTTCACCGT GTTAGCCAGG ATGGTCTGGA
91351 TCTCCTGACC TCGTGTATCCG CTTGCCTCGG CCCCCCAAAG TGCTGAGATT
91401 ACAGGCATCA GCCACCGCGC CCGGCCTATT TGTTTTTTTT TTTAAGAGAC
91451 AAGGTCTTGC TGTGTTACCC AGACTGGAGT GCAGTGGTAC AATCGTAGCT
91501 CACTGTAGCC TTGAACTCCT GGGCTCGAGC GATCCTCCCA CCCCAGCCTC
91551 CCACGTAGCT GGGACTAGAG GCATGAGCCA CTATGCCGA CTCATTTTA
91601 AACATTTTTT ATAGAGACGG CTGGGTGTGG TACCTGTAAT CCCAGCA
91651 TGGGAGACTG AGGGGGCGG ATTGCTTGAG CCCAGGAATT TGAGACCAGC
91701 CTGGGCAACA TGGAGAAACC CCGTGTCTAC AAAAAATACA AAAATCAGCT
91751 GGGTGTGGTG GTGCGTGCCT GTAGTTCCAG TTACTGGGA GGCTGAGGTA
91801 AGAGAACATCAC TTGAGTCTGG GAAGTCGAGG CTGCACTGAC CTGGGAC
91851 CGCACTCCAG CCTGGGCATC GGAGTGAGAC TGTCTTCAA AAAATAATT
91901 ATTTATTTAT TTTAAAATA GAGACAGGGT ATTGCTGTGT TGCCCAGGCC
91951 CGTCTTGAAC TTCTGGCCTC AAGTGTACCT TCTGCCTCGG CCTCCCAAAG
92001 TGTGAGATT ATAGGCATGT GCCACTGTGC CCAGCCTGAG ATTTGAACA
92051 GAGGAGCATG ATGCTGGCG TTGACTCATT TGGCTGTGAG TGTGGAAAGC
92101 TGTCACTGGA GTACAGCAAG TCAGCACTAT CAAGCCAGCC CTTGTCA
92151 CCAGGAGCTG CGGGGAGAGA GGTTTTGC ATTGCTGCAG GGAACGTGACC
92201 TCTTTAGTC AGGGAAGTAG TTTGGCAGT AGAAAGCAGA ACTTGCAC
92251 GCTGGTAAGA TCTGAGTGGT CACTGACAAC CAGCTCTGCA ACCCTGTTAC
92301 CAGGGCAACA AAGATGGGCC CAGGGTAGT GGTGGGCTCT GCCACATCTC
92351 TCTGTGCATA AGAACCTTG GCCACTTGCT CTGGCCTTGT CTTTCACCAA
92401 TCCCAGTGT CATATCCAGT GTACCAACCA CTGAGGGCAG CTGTCTGG
92451 ATCTGTCTCT CATCTCTGCC CATAATTAAC TGCTTCTGGG CACAGTGCAT
92501 GAGTTACATA GATGAGTGTG GGTAAAGTTG CCCTTTCTGT GGGGGGAGCA
92551 TCCTTTGGT CCACTCTCAG GAGGGCATCC TATGTTATT TTGTGATATT
92601 TTCTTAAGAG TTGTATAAGC AAGTGCATCA AGCCAACCTG TCTACCCAG
92651 CTCCCTCTTG AGACCAGCAG AAAACTATTA TCAACTGGCA GTTACGTAA
92701 CCTCTCTGGG CCTCAATTTC CTCATATAA ATGAGGATAA TAAATCGTAT

FIGURE 3II

92751 CTGCTCATAG AGTTGCTGTG GGGAGTAAAG AGTTCAAATG TATCTGTCAG
92801 TGAAGGAAAA AAGAAAAAAA AACAAAAACA AAGAGTCAA ATATATCTAG
92851 CGTTCAAACA GAACCAGGT TGCAAGCCAGT GCCCAATAGG TGTATGAGTT
92901 TCCTATGGCC AATGTAACAA ATGACCAACAA ACTTAGTGGC TTAAAACAAC
92951 ACACATTTAT TATTTTACAG TTCTGGAGGT CAGAAGTCTA AGATGATGCC
93001 AGGCTTGGTG GCTCAAGCCT GTAATCCCAG CACTTTGGGA GGCTGAGGTG
93051 GCAGGATCAC TTGAGGTCAG GAGTCCAGA CTAGCCTAGC CAACATGGTG
93101 AAACCCCATC TCTACTAAAA ATACAAAAAT TAGTCAGGCA CGGTACAGAG
93151 CACCTGTAAT CCCAACTACT CAGGAGGCTG AGGCAGGGAGA ATTGCTTGAA
93201 CCCAGGAGGT GGAGGTTGCA GTGAGCCGAG GTTGCAGTGA GCCGAGGTTG
93251 CACCACTGCA CTCCAGCCTG GGCAACAGAA CGCGACCCCTG TTTCAGAAGAA
93301 AAAAAGAAAAAG TCCGGGATGA GTTTTACTGG GCTGAGATCA GTGTAGACAA
93351 GGCTGCCCTC TCTCTGGAGG CTCTAGGGCA GAATCTGTT CTTGTCTTT
93401 TCCAGCTTCT AGAGGTTGCC TGCAATTCTT GGCTTGTGGC CCCTTCCTCC
93451 GTGTTCAAAG CCATTGGTGT AACATCTTCA GGTCTCTGTG ACTCCGATCC
93501 TTGCTTCCAT CTTATAAGGA TCCTTGTGAT TTCATTGTAC CCATCCAGAT
93551 ATCCCAGGAG AATCTTCCA TCCCAAGATC CATAACTTAA ATCCCATCTG
93601 CAAAGTCCCT TTTGCCATGT GTGGTAATAT ATTACACAGCT TGCAGAGATC
93651 AGGACATGGG CATCTTTGGG AAACGGGAAG GGGGCATTAT TTGACCTAAC
93701 ATCAAGAGCA TGAGATGTTT TTGAAAATG AAACAAATGT TGCAGCTTCC
93751 TAATGCAGCT TCTTAGGCC ACCTGCAGGC CCCCTTGACG TTGGTTTTTC
93801 TCTACCTAGG TCTGTTGTGT CGGGTCTGGA CTCCCCCTGCC AAGACTAGCT
93851 CCATGGAAAAA GAAACCTCTC ATCAAAAGCA AAGAGCTACA AGACTCTCAG
93901 GACAAGTGTCA ACAAGGTATT TATTTCCGCA GCCGGCCTCC TTCCCTGCTC
93951 CAGGATCCCT CGTCCGTAT ATGCCAAGGG ATCCGCCCGG GGCGCTGCT
94001 GGCTCTGAGC CGCCTGATCC GTAGAGAGTG AGGCGCTCT GCCTTCGCTG
94051 AAGTCGCGCC TCCAGCAGCT CAGAGGGAGA TGAATTGGG CCTTGCTGTT
94101 GCTGTAATC CTTAAATCT AAACCAAGAGG AGGCCCTGGA TTTAAACAGT
94151 CCGTTTCTCA GCATGACCCA GCCAGATGTC TGCTTCTTCC GGCAGGTGGC
94201 CTGGGTCCCT ACCTGTGGCT GAGATACATC CCATCTGCTT TGAGTGTG
94251 GAA GTCTCTC TTCTTAGTCT TTTAAAATC CTGCTTATGT CACTGCGGCC
94301 ACTGTGTTGA TTACGCTCAA CGTCTCTTAA CATTCACTGT TCCTGCCAG
94351 AGGCAACGCT CTGGAAACTA ATAAGTCACT GCTTGCCTGG GACTCCTAAG
94401 AGTGCAGACG AATAAATATC TCCTGCCCT GTCTGGATT TGTCTCTAG
94451 ATCTTGCAA GGAGATGGGG GGGGATCAAG ATGGATTGG GATAAAATTA
94501 AAGTGCAGTC TGCAAAACA AAACAAAAAC AAAAGCAAAC AGGTAAAAAA
94551 TGATGATTGT GGCTTCCCTG CTAACTGGGT TAGAGAAGTG ATCAAGTGTG
94601 AACCGGGACT TGAATGAGAG GAGTGA CTTA GCATTTGGTG ACTGCTCTTA
94651 ACGAAGAACT GTGCCTCCT GGGCGAAGAA ACAATGGTAT TTCCATCCCA
94701 ACTTAACCTT TGGCGAATTAA GCCTTAGCCC AGACCACAG GTGGTTTCGG
94751 AGGCTACTTG AGATGTGATT GCTCCTAATG AACCTCCACG GGCCTTTTTA
94801 ACCTGTCGAT GTGTTTATTT CAGATGGAGC AGGAAATGAC CCGGTTACAT
94851 CGGAGAGTGT CAGAGGTGGA GGCTGTGCTT AGTCAGAAGG AGGTGGAGCT
94901 GAAGGCCTCT GAGACTCAGA GATCCCTCCT GGAGCAGGAC CTTGCTACCT
94951 ACATCACAGA ATGCA GTCTGTG AGCCTCCCT GAAGCCCCCT TCCCTGGAG
95001 GTGGCACTTC CTGTTGTGT TGTCTCATCC TGTTCATGA TGACTCCATG
95051 AGGCACATCA CAGCCAATGG CAGAGAGTAG AGAGAGGGAG AGCACAAAAG
95101 CAAGATCTGT GTTTGCAGA GTAGTGA GAGAGAG CCAGGCGTAA GGTCCCCAAG
95151 AAATGAGATT GGACTCATT CCAGCAGAA GTGCAGGTAG ACGGCTGGTA
95201 CCATGGAGTC TGGAGATGGG AGTAATTCACT CTTTGCAGCA AGTTGAAAAA
95251 GATCTTAACA TCTCCCATCC CAGCCTCTGT GGTCTGCGTT GTGTCTGACA
95301 TGAGCAGCCT TGAGAACCG ACTCCCAACT ATGTACAAGA AAACCTTACTT
95351 TCAATCTTCC TGACATCAA TTTCCATTG GCCAGAACCA GTGTAGTGAC

FIGURE 3JJ

95401 AAGAAAATAG CCTTGAAAAC CCAGACCCTC TGTCATTATT TACCATGTGA
95451 CTTTCATTTC TTCTTCCCTT CACAAGAGTA GACTGTCTTC TTCTCCATTG
95501 TCTTGTAAAG TTTTCATTC AGGTGTTTT TAATGTGCC AATTAACAG
95551 TCTCAAGAAG TTGAATCACA CATTCTAAA GTTTTTTCA CAAGGGAGAG
95601 GAAATCTATA GAACGTGGCT GATTAAGAAT AACTGCTATG TTTCCATTCC
95651 AGACTTGGCT GCCTTCAGT GGTGGGTGAA GTTATTCAAG TATGTATTT
95701 AGATATAGAT TTCAGTGCCA TTGAAGCATT AAGGGATTCT TATGGATGAA
95751 AGGTGTCCAG GAAAAATAAG CCAGGAGGTA GAAATAGACC ACTTGGAGTC
95801 TAAATGACA ACTGGGCAGA GGATATGAAG TCATTGCTAC TTTGAAAGAG
95851 GCATATGTAC TTTAGGGCCC ACAAAATACT GTAGAAAACA CTTTGTAGCT
95901 ATCCACATGG TGGCTGTAAT AGCTACTGGG TCTTAATAGG TTTTAGTCCT
95951 GAACATGCAA GTAAGTATCT CCTAGGACAG GTAGATGGTG GCAGGAGACA
96001 GGCATGATGCA GTTCCGGCT GGACTAATTT TTGTATTGTT AGTAGAGATG
96051 GGGTTTCATC ATGTTGGTCA GGCTTGTCTT GAACTCCTGA CCTCAGGTGA
96101 TCCACCCGCC TCGCCCTCCC AAAATGCTGG GATTACAGGC GTGAGCTACT
96151 GCGCCCAGCC ATTTGTGTCT CTTAAAAAAA AAACATAAGAA AATGAAAAAA
96201 ATGACATTGG CCAATTCACTT AAAATGCCAC TCACTGACTG TGGTATGAAA
96251 TGGCTTCCCC TTTGATGGAC CGAAGTCTGT CTCATTGTGT GAGCCACTTG
96301 CAGGGCTGAG TATGACTNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
96351 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
96401 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
96451 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
96501 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
96551 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
96601 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
96651 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
96701 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
96751 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
96801 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
96851 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
96901 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
96951 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
97001 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
97051 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
97101 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNTCGGCC TCCAAGTGC
97151 TGGGATTACA GGCCTGAGCC ACTGCTCCTG GCCCCCACGC CTTTTTTTT
97201 TTTTGGAGAC AGAGTTTCAC TCTGTACCC AGATTGGAGT GCTGTGGCAC
97251 AATCTCAGCT CATTGTGTCC TCTGCCTCCC AGGTTCAAGT GATTCTTGTG
97301 CCTCAGCCTC CTGAGTAGGT GGAATTACAG GCGTGCACCA CAAACACCTGG
97351 CTAATTTTG TATTTTTAGT AGAGATGGGG TTTCACCATG TTGGCCAGGC
97401 TGGTCTCGAT CTCCGTACCT CCAGTGTACCC ACTTGCCTAG GCCTCCAAA
97451 GTGTTGGGAT TACAGGCCTC AGCCACCATG CCTGGACCCC TCTGCCCTT
97501 TAAGCACTGC CACATATTAG ATCTACGAAG GCTTATGGA TACAATCCAA
97551 GGAAGATGAA CCTTGGGCTA GTGGGATAAA ACTAAGCGCA TGTAGTTAGA
97601 ATGGAATGAT CTGGAAACCA GGTCCCAAGT TGGTCTAAAT TAGACTCATG
97651 TTGACTATGT CACACTGTAA ACCAGTCTAA ATGCTAATAA GCATGCTTGA
97701 CCAAACACTG CCCTGCAGCC TTCAGAGAGG AAGAAGGAAA ACATAATTG
97751 TATCCTCTCT CCCTATTTTC TGAGTCTATG GGATTCAAAT TGTAGCTGCC
97801 ATGGAAACTG TACTTGGAA TTTCTAGAGC CCTTAATTTT AACTTAACAT
97851 ATAAAAAACAC TTTTGTACTG ATTTTATAAT TATTCTATGAT GGATGAGAAA
97901 GTGAATGTCT TTGACAGTGA GGGAAAGCTAT CCGAATGCTA TTTCTTTT
97951 TTTTTCTT TCATAAAAGAT GCATATATTT GCATGCTTTA TTTACCTGGG
98001 GCTAACTCTT GCATCTTTG CAGATTCCGA CACCATAGCT GAGTTACAGG

FIGURE 3KK

98051 AGCTCCAGCC TTCGGCAAAG GACTTCGAAG TCAGAAGTCT TGTAGGTTGT
98101 GGTCACTTTG CTGAAGTGC GGTGGTAAGA GAGAAAGCAA CGGGGGACAT
98151 CTATGCTATG AAAGTGATGA AGAAGAAGGC TTTATTGCC CAGGAGCAGG
98201 TAGGAGGATT TTAACATCAT GCTTTCCAC TTTCTGTACC GGAGTGTCA
98251 TTGCAAAGAC GATAATCTGC TGCACTGGCG TCTAGGATCA AGCACGTTTT
98301 CCTCTGTGAC TCTATATTAA ATTATAGTTG GGGCAAAAAG GTCTCTCATG
98351 TTCTTAGCTC ATCTTCTTGA ACTGATGTTG GCTAATTTC AAGGCTCACA
98401 AATTCCCTCTT GATGTATCAT GTTTCTATCG TTGTAATTAA TTTCAGAACCC
98451 AAGGTGGCCT TTTAGCTAAT GAATTTAAGA TGATCTTTA TGACCATTAG
98501 CTGAGGACTC AGGATATACA TATGGTGGGG TGAATCAGAT TGCTTTGT
98551 CACGCTTTAG GTATTTGTGT TGTCGGCATA TGGATTTGGT TTTAAAACAG
98601 GCCTTGAAG AAATCAAATA ACATTCTTG TTATGTGGCT AGGGAGTTGC
98651 TTGTTTGAGA GCAGGTAGAA CGTTATCTTT TTTGTTGTGG TATTTTCTT
98701 TCTTTAACAC AAGGCTACTG TCTCTAGACA TATTGATTCA TTTGCTGTGT
98751 TTTAGAGAGA TGGCGTCAG CTTGGAATT CAGAGAGTAA TTTATTACTT
98801 ACAGACATT TAGTGCACAT GATATGTCTG ATAATGTACC CAGCTCTGCA
98851 GGAAGCTTGC AAAAGGAATA GAAGTCCCATT GTTGTCTATT TTCACTGT
98901 AAAAACAAACC TTGGAAAGTG GAGGAAAAT GCAAATGTAT AAAGCAGGTG
98951 CTTACCAAGCT AAAGTATCAC AGAAGTGGGA GAGCAATTAG CAAATTAAATT
99001 AACGATGATG TGAGGGGAGA TGTTGTGGGT GAGCAAGGGA CAGTTAGGG
99051 CAGTTCTCAC CGATGGGGGG AAATGTAGGT TCTCGGCAGA GAGAAGTGT
99101 GAGAACATGT TGGGTAGAAG TGTGACATT TGAGTACTA GAATGCTATG
99151 CAAGTGTGTG TGTGTGGGT TGTGTGTGT TTCACTGTGGT CAGAACAGAC
99201 TGGGAAATGG CGAAATGAGG ACATTTGGGT GGGGAGGGGG AAATGGGTGG
99251 GAAACTCAAG AACCTTTTTT TAAAAAAATTG TGGTAAAATA TATATAACAT
99301 AAAGTGTACC ATTTAACCA TTTTTAAATG TGCAACTGAG TGGTATTCA
99351 TGCATTCACT ATGTTGTACA ACCATGACCG CTCTCCATTCT AGAATTTT
99401 TCTATCATCC CAAACAGAAA CTCTCTATCC ATTATACAAT ACCTCCCCAT
99451 TCCCCCAAGA ACCAGTTTTT GAATTGCAGT TTACTTTGTG AGGCTGTTGG
99501 GGATTATTTA GGCCTCTGGA AGGAGGAGGT TGGGATCAGA GTCTGGCCCT
99551 GTGGACTTCA ATGACTTTGT GTGGCCTCCA ATCAGAGAAG CAGCGGAGGG
99601 CAGGAAGCTG CTTGTCAGAA TCTGAGAGTG ATGTGGCTTC TTTGTTTAGC
99651 AATAAAATGT GAGCACATAA TAGAAAGGAA AAGTGCACAG ACATGGCAGA
99701 TAATTTGGAA GAGAGGAGTG GAAGATGCTC ACTCAGCCTC CCAGCTCCTG
99751 AGAAAAGAACT GTGTCATC AGTCTACT ACCTGAGCAT CTGTTGTATC
99801 TGGTGTGTTT CTAGGTACCT GGAGAAGAGG CATTACGTGT AGCCCTGACC
99851 TTGTGATGCT TATTTTTTG ATGGGAAATA GTGCGTGTAA AAAGAAAATA
99901 ATCCAACAGG CCACACGGCA GGCAAACAAAT AGAGATATTC AAATAGGTAT
99951 ACCTTCCTCC AGGTGAATGG CCTGAAATGA CCGTGTGAA GTGTGGGCTG
100001 GGGGCTTATA AAATTATACA CATACAGGCG CTAACCTAAAG CCGCCTATT
100051 ATTCCTTAAG AGGATGCATA GAAAAGAAAA GTAGGGTCCT TTAACTGAGC
100101 CCATTGAAT TTAGGGCCTG AGAGAAGCAG CACAAGCAGT GAAGGGAAGA
100151 AAAAGAAGTG CCCGAGAGGA GGGAGGGATT CTGTTCTGCA GACAAGGCCT
100201 GCCGCCTGGG AGAGGCCGC ACGCCCACCC AGGGTTCTCT GACAGCTGGA
100251 AGGGGTCTTC AGAGACTGTT TATTTTTAT TTATTTATTT ATTATTTAT
100301 TNTGAGACAG AGTCTCTGTC ACCCAGGCTG GAGTGCAGTG GTGCAGTCTC
100351 AGCTCACTGC AAGCTCCGCC TCCCAGGTT ACACCATTCT CCTATCTCAG
100401 CCTCCCGAGT AGCTGGGACT ACAGGCGCCT GCCACAATGC CCGGCTAATT
100451 TTTTTGTAAT TTTAGTAGAG ACGGGGTTTT ACCTGCGTTA GCCAGGTATG
100501 GTCTTGATCT CCTGACCTCA TGATTGCC ACCTCGGCCT CCCAAAGTGC
100551 TGGGATTACA GGTGTGAGCC ACTGTGCTG GCGACTGTT TCTACTATT
100601 TAGAGAGAGG GTCTCACTGT CATCTGTGCT GGAATGCAGT GATGCAGTCA
100651 TAGCTCACTG CACCCCTAAA CTCCTGGCT TAAGCGACCC TCCCGCCTCA

FIGURE 3LL

| | | | | | |
|--------|------------|------------|------------|-------------|------------|
| 100701 | GCCTCTTAAG | TAGCTGGGAC | CATAGGCATG | TGCTGCCACA | CCCAGTTAAC |
| 100751 | TTTATTATTT | ATTTATTTAT | TTAGAGAATG | AGTCTCATTG | TGTTGCCAG |
| 100801 | GCTAGAGGTG | CAGTGGCACG | ATCTCGGCTC | ACTGCAACCC | CGCCTCCAG |
| 100851 | GTTCAAGCGA | TTCTTCTTGC | TCAGCCTCCT | GAATAGCTGG | GATTACAGGC |
| 100901 | ACCTGCCACC | ACACCTGGCT | AATTTTGTA | TTTTTAGTGC | AGAGGGGGGN |
| 100951 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101001 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101051 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101101 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101151 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101201 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101251 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101301 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101351 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101401 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101451 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101501 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101551 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101601 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101651 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101701 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101751 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101801 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101851 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101901 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 101951 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102001 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102051 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102101 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102151 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102201 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102251 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102301 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102351 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102401 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102451 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102501 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102551 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102601 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102651 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102701 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102751 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 102801 | NNNNNNNNNN | NNNNNNTATA | TGTGCATACA | GAATATATAC | ACAGAAATAT |
| 102851 | ATATGTACAC | ATGCATAGAA | TATATTACA | TATATATGCA | TATATATAAT |
| 102901 | TTTTTATTG | TAAGCAGTTG | ATTTATACAG | TTTTTGTGTTT | TGTTTTTTTT |
| 102951 | TTGAGACAGA | GTCTCACTCT | GTCACCCAGG | CTAGAGTGCA | GTGGCGAGAT |
| 103001 | CTCAGCTCAC | TGCAACCTCT | GCCCCGGGT | TCCAGTGATT | CTCCTGCCTC |
| 103051 | AGCTCCACAA | GTAGCACACC | ACCATGCCA | GCTAATTTTT | GTATTTTTTT |
| 103101 | TAGTAGAGAC | GAGGTTTCAT | CATGTTGGCC | AGGCTGGTCT | CGAACTCCTG |
| 103151 | ACCTCAAGTG | ATCCGCCGC | CTTGGCCTCC | CAAAGTGCTG | GGATTTCAAG |
| 103201 | CGTGAGCCAC | CACACCTGGC | TCCCATAATG | TCTTTAGAA | AAAACGATC |
| 103251 | GAGTTGAGGA | TCACACGTGA | CACTTAATTG | TCCGTCTCT | TTAGTCTCCT |
| 103301 | TCAATCTGGA | GCAGTTCTTT | GATTTTCCT | GGACTCTCAT | GACCTTGACA |

FIGURE 3MM

103351 ATTCTGATGA TTATAGGCCA GTTATTTGT AAAATTGAA TTTGTCTGAT
103401 GTTGCTTATG TTTAGATTTA GGGTCTTGGT CTTTGGCCGG AATATCTCAG
103451 ACAAGATGCT CTGTTCTTAT TGCAATCAGAG CAGAACACTC TCTGTTTCAG
103501 TTGATCACAT TTATGTTGAT GCTCACTTTG ATCACTTGAT TAAGGTGGTG
103551 TCAGTTATGC CTTTCTACTT GTAGGGTTAC TCCTTCCTCC TTCTGTGATT
103601 TATTTATTTT ATTTTTCTTA GAGACAGGGT CTTGCTTGGT TGCCCAAGCT
103651 GGAGTGCAGT GGTGGGATCT TGGCTCACTG CAGCCTTGA CTCCTGGCT
103701 CAAGTAATCC ACCTGCCACA GCCTCCTGAG TAACTGGGAC TGTAAGCGAA
103751 CACCACCACA CCCAGCTACT TTTTGTATTG TAGAGATGGG GTCTCACTGT
103801 GTTGTCCAGG CTGGTCTGTA ACTCCTGGCC TCAAGCAGTC TTCCGGCCTT
103851 GCCCTCCCCA AGTGTGGGA TTACAGGCAT GAGCCACTGC ACCCAGCCTC
103901 CTTTGTAAATT AAAAAGTAT TTTATGGGA GTTACTTTCA AGTGTGGAA
103951 ATATTTATA TCTATGTGGA CTTGGATTT CCTATTTCAG TCAGTGAGTT
104001 ATAATCCATT TCTGTCACTA GTTTTATACT TAAATTGTT CCAACTTGGC
104051 CACTGAGAAC CTTTTTAGGT TAGCTTTGT GTCCTTTCA CATGTCCTCA
104101 AGATTCAATT AATACTTTCC TGCTTTCTGG TATAGCAAGA TGTTCAGGTT
104151 CTTTGGTAC TTTTACTTT TCTGCCCTGG CTCTGGCATC AGTCATTCT
104201 CAGAGGAGCC CTGTGCCTT CAGTGGACAA TGGTGTAG AGGCAAGAT
104251 CTGGACATTG GGTGTTTCA TTGCTACCGG TGTGTCACTA CTCCCAGACC
104301 CTTTCAGTG GACAGCACTA AGGAATACAC ATACGTATAT ACAATATATC
104351 CACCTACACA TGTGCGTGCA CTCACACACA CACATATACA TTACATCTAT
104401 ATTTGTGTAT CCATGTCTAT ATATTGAAAA TTGTGGCTGG GCACAGTGGC
104451 TTATGCCCTT AATCTCAGCA TTTTGGGAGG CTGAGGAAG AGGATCACCT
104501 GAAGCCAGGA GTTCAACACC AGCTTGGAA ACAGAGAGAG ACTCTGTCTC
104551 TACAAAAATA AAAAGGGAAA ACCATGAGTT CACACCCGTG CCCCCAGTT
104601 CAATCCAAT TCACAGGGTT CATTAGTT TTCACCCCTT CCATGTGGT
104651 AATTCTCTTC TCTGACATTA TACCCCTTAAT ATGTTACTT ATTTATGCA
104701 TCTGTATGCA TCCAATCTAC TGTCTTTGTT GGTATCCCAC CTCCCCTTGG
104751 TGGGTCCAGA TAATCTGCTC TGGGTTGCC CTTACGTGG ATGTCTTCT
104801 TACCCCTGTGT GGGCCTGTGA TACTGGGCTG CCCCCACACA TGAGTGTGC
104851 CCTCCTCAGG TTGCTTGGGA CGGCACTGTG TCCCTGGCCA CCATGACTTT
104901 TCTCATAACT AGCGTGGATG CTTACCTTGT TCCACACCA GGAATGGCTT
104951 CAGGAAGAGA AGAGGAAGAG AAAATATT ACATTTAAAG AAAGGTAGTT
105001 TAAAGAAAATA TGTTAGGTAA AGAATTGAGC AGGTAAATA CGGAGCTGGC
105051 AAAAATTGTG ACCAAAGTAG GTGAATGATT GAGATTATG CAATTCTGG
105101 CTAAGTGACA GCCCCTTCCC TTCCCTTCCC CTTCCCTTCCC CTTCCCTTCCC
105151 TCTTCCCTT CCCTTCCCTT TCCTTCCCTT CTCCTCTGTT TTCTTTCCC
105201 TTCCCTTCCC TTCCCTTCCC CTCCTCTGTT TTCTTTCCC
105251 TTCTTCCCTT TGCTTTTTT TTCTTTTAA AGCTAGAAAC ATCAGTTAG
105301 GCATAAAAGAC AGAGGAAAAG GCTTCTTTT CCTCTCACAG TTCTTTATAA
105351 TTGTCTAACG AGTTTCTTTT TTCCCTAGGT TTCATTTTT GAGGAAGAGC
105401 GGAACATATT ATCTCGAAC ACAAGCCGG GATCCCCAA TTANNNNNN
105451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
105501 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
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105601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
105651 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
105701 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
105751 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
105801 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
105851 NNNNNNNNNN NNNNNNNNNN NNNNNNNNN NNNNNNNNNN NNNNNNNNNN
105901 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
105951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

FIGURE 3NN

106001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
106051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
106101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
106151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
106201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
106251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
106301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
106351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
106401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
106451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNATGGAGT
106501 CTTGCTCTGT TGTCCAGGCT GGAGTCAGT GGTGTGATCT TGGCTCACTG
106551 CAACCTCCGC CTCTGGGT GAAGCGATT TCCTGCCCA GCCCCCTGAA
106601 TAGCTGGGAT TACAGGCATG TGCCACCA CGTGGCTAAT TTTTGATTT
106651 TTAATAGACA CGGGGTTTCA CCATGTTGGT CAGGCTGGTC TCGAACTCCT
106701 GACCTCAGGT GATCTGCATG CCTAGGCCTC CCAAAGTGCT GGGATTACAG
106751 GCATGAGCCA CTGCGCCTGG CCAACTTATT TAACCTTTT GAGACAGGGT
106801 CTCACTCTGT CACCCAGGCT GGAGTCAGT GGCACTGATCA TGGCTCACTG
106851 CAGCCTAAA TTGCAGGGCT CAAGTGATT TCCTGCTTCA CCTTCCTGAT
106901 TAGCTGGGAC AACAGGTACA AACCACCATG CCTAGCTAAT TTTTAAATT
106951 TCTGTAGAGA CTAGGGTCTC ACTATGTTGC CCAGGCTGGT TTCAACTCC
107001 TGAGCTCAAG AGATCTTCCT GCCTTGGCCT TCCAAAGTGC TGGGATTACA
107051 GGTGTGAGCC CCATGCCAG CTCCGGTGGG GGATATTCT ATATCCACAT
107101 GTGTATAGTT TACTTTATAA AAATGGTATG TTACTCTGT CTTGGCTCTC
107151 CAGCTTGTG TTGCCCTTCA CCAGTGTATC CCAGACATCC TTTCTTCCTT
107201 GTCAGTAACG CAGGTCTACT TTATTCTTTG AGCAGTGGCA TAATTTTCCC
107251 TGATGTGTAT ATATCATAAG TTAGAGAATG CTAAAATTCA TTTTGGGGCC
107301 TTGTTTAGGT TCTTGAGGGG TTAAATTCTT AAATTTAACAA AGTGTATCCT
107351 GGAAACAAATT TTGTTCTG ATTCAAGCCCT TAAAAGAGGA CTATCATGTT
107401 ACCTTGAAATG GAGATAAACCA GGCTCACGTA AGAGAAAAGG GTAAGAGGGA
107451 TGAACCTCCC CTTATCTAA ACTTCTACTG GCCCGTTTT GGGGAATTG
107501 CTGCTTTTAT TCCTGACCTA AAATAAATAA GTTATGTTG CTTGGTTCA
107551 TATTAGTTGA GAACCCAGTG CCTGGAGAGA AGTTTCTT GTCCTCTGAG
107601 TGAGGACATT CACATATGAA TCTATTGGCA GACTGGCTTT GACTGACCAC
107651 ACGTGCCTTC AGAACCAATG CCACAGCTCT TAGGTTTATG GCCTGAAACA
107701 CCCTTCCCT ACATATTGCC TTAGAAACTT TCCTTCCTT AGACATGGGG
107751 CATGGAACCC TCACCTTCAC AGATGACCTT GGTGTGTTTC TAGGGTTGCT
107801 GGTGTTCCAG GACATCTGTT GCAGATGCAG TATTTACCTT GTGCTCTCTG
107851 CATCATAAGC AGCTTCTCAT GTTTGAATGT ATTAACAGAC TTTTAATT
107901 TTTTATTTT GAGACAAAGT CTCACTCTGT CACCCAGGCT AGTGTACCC
107951 AGGCTGGAGT GCAATGNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
108001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
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108201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
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108451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
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108551 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
108601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

FIGURE 300

FIGURE 3PP

111301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
111351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
111401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
111451 NNNNNNNNNN ATATTGAATC TGTGCAAAGT CAGCTATCAG TCTGATTGCC
111501 CTATCCCACA AATTGCATCC CAGGAGATGA TTAGATGCAA TAGGTGAAAG
111551 TTTTCATGTT CCTCAGTGGC ATTCACTGCA TGAACAACCA TTGTCCACCT
111601 AATTCCCTCTG CATCTACAGC AAGAAATAGA ATTTTTGTGG AGACTTAACA
111651 TGCTGTGTCT TACTTACATA TGTATGCAA AAAAAGAAAA AAAGTCACCT
111701 TTTTTCTTTT TTGAGACCGA GTCTTGCTCT GTGGCCAGG CTGGAGCAC
111751 ATCACGGCTC ACTGTAACCT CCGCTACCCA GGTTCAAGTG ATTCTCCTGC
111801 CTCAGCCTCC TTGAGTAGCT GGGACTACAG GCACGTGCCA CCATGCCAG
111851 CTAATTTTTG TACCTTTAGT AGAAAATGGGG TTTTGCATG TTGGCCAGGC
111901 TGGTCTCGAA CTCCTGACCT CAGGTGATCC ACCTGTCTT GCCTCCCAA
111951 GTGTGGGATT ACAGGCGTGA ACCACCAACG CCTGGCCCTG AAGATACATT
112001 TAAATCAAT GAAAAAAAC AACAGGATT CACCTCTAT GGTATATCCC
112051 TCCTGGCTGT CTCTTCTCTC CAGTCTTGCC TCTGCTGTGT GGGTTTCAGG
112101 CATCCATCTT CTCTACTCTG AATTACTGTG ATAACCTCTG AAGTATTTC
112151 CCTGCCATCT GTCTGGCCCT TCTCCAGGT CTTCCACATA CTGCAGCCAA
112201 GTCAGCCCCG TGTTGAAACC CTTCAAGACT CCCTGCTGTC CTCTGGATGA
112251 AGTCCAGACT CTTCCACGTG ACTTACCAAGG CTTTCTTGC ACTTGTCCCC
112301 AGCCACTTAC TGTTTCTCTC TTTCTACCTT AACATCCTGA ACTTCCCTTG
112351 GTTCTTTGAC CTTGCCTCTG ACCTTTTCC ATGCTGTTCA CTCTTTCCCT
112401 GTTCACCTTG CTAACTCTC TTTCTCTTTC TGGGTTGGAT CAGATTCAC
112451 TTCTTCCAGA AGCCCTTCCT AGACCCTATA CTTCTGGAAT GGCGCCTTTT
112501 GACTGTACGC TCATTGCACC CTGTACTTCT CTTTTATGAG TGGGTGCTGG
112551 TCTGTCCCCAC TAGGCTACTT CATCCATAAA GGGAGAGTAG AGCTTTACCA
112601 AGTCAATGCT TAAGCAATAT TTATTGGATG AATGTGTGAT TAATTCATA
112651 GAAATTGAT GTGCATTCAA ATTTACTTAT TGTATTACGG AACTTGCATT
112701 ATATTCTCAG TGGAGTTATT TTCTTTCACG TGTGTAATTC AAGATAGACT
112751 CAGTGAGATT TTCAAAATTG GGAATGCGT GCAAGGAAAT TGAACTTGAG
112801 TTCTTTGCA TTTTGATGGT TAAAAATTTC CCATTGTGG TGACATACCA
112851 CAATAAGCCA GTGAATGTGG CTTATTGTT TCTGGTCTAT AGAAAATTGT
112901 CGCAAACCTCT GTCATATAATGT CTGGTTCTAT ATAACAAAGC TAGTCCTGTA
112951 TTCTGCATGT GGCTGATGGA AACAGTGTCT TGTTGATCTG GTTCATGAAG
113001 AAATCTGTT AATTCTGCAT AACAGATGCC TTCATCAGTG TCCTTCCATG
113051 AAGGAGCTGA TCTTCACAAA GAACACATAG TTTTGCATCC CACCACTTGC
113101 AGTNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
113151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
113201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
113251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
113301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
113351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
113401 NNNNNNNNCT ACTGTGGTTT TCTTCAGAAT TACCCCTTGCT CTGAGCCTGC
113451 AATTGACTCA TGAACCTCTT TTCCATGTTA TAACCTTACA ATGACTTCCT
113501 TGTGTTCACT CCAAATGTTT TTCCCTGGTT GCATGTAGAG ATGTATTAGC
113551 TAAGGTACAT GCTTAGCTGC TGTATCAAAG AGACCCTAAT GTACAACCCA
113601 GGCTGGTAGA GCAGCTCTGC TGTATGTGTT AATTCAAGGGA CCCAGGTTCC
113651 TTCCATGTTG TGACTCCCCC CTTCTTAGG ATGTTGCTT CTTTACATG
113701 GCTGAAGTTG GGCCATTCA TGTCTCTGTT CCAGCTGCCT GGTAGGAAA
113751 AAGAACAGAA ATTCAAGAGTA AGCAAATTCT TTTTCTATAG ATGGATGCAG
113801 AAGTTGGACA CATCATTCC TCTCACATT TCTCGGCCAG AACGTAGTCA
113851 TGTGACTGCA CGTCTAGCTG CTAAGGAGAC TGGGAATTAA CTGTCGGCTG
113901 TGTGGCCTCT GTCAAGCTAA AATTCTTATT ACTGTGGAAT AAGGGAAGGA

FIGURE 3QQ

113951 TGGATTTGGG GGCACAATT A ATAGTCTGTC ACAGAGGCTA AAACAGCTGC
114001 TTTTGGCTGG GCACGGTGGC TCACACATGT AATTTCAGCA CTTTGGGAGG
114051 CCGAGGCAAG TGGATCACTT GAGATCAGGA ATTTGAGACC AGCCTGGCCA
114101 ACATGGTGA A ACCCTGTCTC TCCTAAAAAT ATAGAAATTA GCCGGGCATG
114151 GTGGCGGGTA CCTGTAATCC GAGCTACTCC AGAGGTTGAG GCAGGAGAAT
114201 TGCTTGAAAC TGGAAAGGCAG AGGTTGCAGT GAGCCAAGAT GGTGCCACTG
114251 CACTCCAGCC TGGCGACAG AGCAAGACTC CATCTCAAAA AAAAAAAA
114301 AGGTTAAATA AACAGCTGCT TTTGTAGGTG ATACAAGGTA CAGCTAAGCT
114351 TTGAAGCCAG GCCTGTAGTT TCACCTTCCA TATTCTTACT CAAGGCATTA
114401 TACTTCTGGA TCTGAAACCA CTGGATCTGA TGCCCTGCTT GGGATGAGTT
114451 CTTTATATTA TCTTGCTTTC AACCCACACC TGTGTAATTT TATGGGCAGC
114501 GTTTGTTTCC TATATAGGAA CAATTGAAA GTGGGCTGTT TCTAGGCTTT
114551 CATGAATAGC AGGCTATGCT GTCATTGGGA ATCTGGAGGG AGTTAATGAA
114601 CACAACCTCA TTGTTTACTT TAGTGAAATG TGGCAGCTTA TGATAGTTTT
114651 GACAGTGAGA CATGTGCTGT TTTGATCTCT CAGCTAACAT TATCTGATT
114701 TTCAGGCATG TCTCAAAACT CACCAGGC CTCACATGC TGCTGCTTCT
114751 GAAGGCCAGGG TTTGGAAACC AGCTGCCAT CAGAATGAGG CTGTGACTTA
114801 GAATATTGGT TCTTGTTTA TTACCATTC TTGTTGGTC TCTCCAGAGT
114851 CACTGGCCTT TTCCGCTTCA ATTTTCTTAT CGGTGAAATG AGATATTAAT
114901 TCCTCTTATT GACTTCATT CAATTGCTGA GTGTATTGTT GCCTTGGGA
114951 AGTTCTTGA GTTTTCTGTG CCTTTGAAAT AGTTGTTTTT TTTTATTCTG
115001 GTGTTTGAG GCATGTTCA AGTGAGTGCA TTTACACTTC TACCATTTA
115051 GGAGCCACAA TTCAGTTATG TTGTCCTCAGC TTGCTGGCC CCATCCCCAG
115101 AGTTTCTGAT TCAGTAGGTC TGGGGTGGGG CCCAATAATT TGCATTTCTT
115151 CTTCTTTTTT CGAGACAGAG TCTGACTGTG TCATCCAAGC TGGAGTGCAG
115201 TGGCACGATC GTAGCTCATT GTAGCCTCAA ACTCCTGGGC TCAAGCCGTC
115251 CTCCCACCTC ACCCTCCTGA GTAGCTGGGA CTATAGGCAT ATACTACCAT
115301 GCCCTGCCAC CTTTTTAATT TTTTGTAGG ATGGGGTCT CACTGTGTTG
115351 CTCAAGGCTGG TCTTGAATT CTGGGCTGAA GTGATCCTCC TGCTTCAGCC
115401 TCCCCAAATG CCGGCATTCC TGGCATGAGC CACTGCACTT GGCAAGACT
115451 TTGCATTTCT AACTAGTTT CAGGTAATGC TGCTGCTGGT GTAGGGACCT
115501 CATTGGAGA ACCATTGTT C TATAGCTGTA GCTATAGTTA GTTTCTGGTT
115551 ATAGCTTCTT CTTTTGTCC CTTCAAGT AAGTGTACACA TCCGAAATCC
115601 CTGTCCTTGC TCTTCAGGC CCAGGCATGG TATCTGGTCC TCTTCTGTTG
115651 CTAGCCCTGG GGTGCTTCAT CATCCCAAGT TTATTTTCT TCTCCTAACCC
115701 TGAACCTTTG TAAATAGCCC CTTCCCTAAT GAACGTCTC AATTCCCTGT
115751 TTTGCGTGTG CTGCTGTGTT CTTGGCAAGA CTCTGGATGA TTCAGTACTC
115801 AATGAGGATT TTTCGCATAG ATGGATGAAA CAGGCTGGGT TTCATGTTT
115851 CTAAGATAAA GGTGCTTCTC TCTTTTCTC TTGGTCACTT TGACCAAGAA
115901 GAAAATAACA GAGTTTTAT TCTCAAGAAG AATAATATCG GGGCCACTCT
115951 GCTCAGAGGC CACTCTGCTT TGAGGACCCC TTCTCTCCTC CCTCATGCCA
116001 AAGATCAGGA ACATTGGGCA GAGCGGATAA CGATGCCGCC AGCGTCATTA
116051 CATTTCACG GCACTTTCAG TTGTGCTGAG CGTCAAACA TTTCAAGGAG
116101 ACATTTCTAA GAGGTGGCTA GCACAGCATG CCTCTAAATGC CCTATGTGAA
116151 TTGGAATAGA GTACTAAAGA ACTGTTCAAT ATTCAACCCCA TCCCCGCATA
116201 TGCAAGCATG CACGTGGGTT CATTGTATAT GTGTGTGTGC ACGTGTGCAC
116251 AGACACATT T GTCCTTCGTT TCAAATGCAA CACAATGGAT GGAAATTGCC
116301 TTCCCTGGTAC TGGGGTATGG ATGCAAACAC CAACAGAGAA GCAGCCGCTA
116351 CTTCCAAACT GAACACATGT GAGATTGCC CTTTAATTAG CATCTGCAGC
116401 TGCTGCCATC AGAAGGGTCT GTCTCTGTT GCCTGAAAGT CTTTGCTTTA
116451 AAAGAGCAAG TCCATTATAG CTCCAAGCCA GGCTCGCTG TCAGCTGCTG
116501 TGCTTTCTCT GGCATCAGCG GGGTTGCCAC ATTGTTTGG GCTGTTTCAC
116551 TCTAGGACTC TTTCCCTCTC CTGTGCCCTC AGCCTTTGAT TACCATGCCT

FIGURE 3RR

116601 TGGTGATCCT CATTGGGTG ACCTGCAGCT GCTCATTGTG TGTGCAGGAG
116651 ACATCTCCAG TCCTTGTAAAG GAGGGAAGAT CACTGGCTTC AGTGCTGATG
116701 GACTGGTTAT TTTCCAGCCC TTTGTCGTCA GTGATCTTGT CTTGATATGC
116751 AGAAAGGCTC CAGGTAGTCA CTGAAAAAAA TATAAGCAGC AGAGGTGATG
116801 GCTATATGAA AGTCACGTTT CATCAAGGGC ATTGCTGCTA TGAAAACCTT
116851 CAATTCACTT GGAGTAGGGG GCCATATTGG TTCCACAGCC TCCTCAGCAG
116901 TGGGTCCCCAA CACAGTGTG GGCTAGCTGC CTCTGAATCA CCGCAGTAGC
116951 TCCTTTTACT ATAGATTCTC GGGTCCCACC CATGGAATGT GATCCATGAA
117001 GTCTGGGGTT ATTCCCTGGA ATCCTTAAG CTCCCTAAGT GGTTGGGATG
117051 GGAAAGAGAT ATGCTTTATG TTACTATACT TCTTATTATT ATTATTTAA
117101 AATTCTTGCC GGGCGCAGTG GCTCACACCT GTAATCCCAG CACATTGGGA
117151 GACCGAGGCG GGTGGATCAC TTGAGGTCAAG GAGTCGAGA CTGGCCTGGC
117201 CAACATGATG AAATCCCCTC TCTACTAAA ATACAAAAAT TAGCTGGCA
117251 TGGTGGCGCA TGACTGTAGT CCCAGCCACT CGGAGGCTG AGGCAGGAGA
117301 ATCGCTTGAA CCCGGGAGGC AGAGGTTGCA GTGAGCCAG ATCGTGGCAC
117351 TGCACCTCAG CCTGGGTAAAC AGAGTGAGAC TTCACTCTCAA AAAAACCCA
117401 AAAAACAAA ACTCTTTTTC ATTATACCGG AACGTCACT TTATGGAGTC
117451 GGGGATTTT TCTGTTTAT TCACTGCTGT TTCCCTAACAA TCTAGAATAG
117501 TGGCTGGCAC GATAGGCACT CAAGTATTGA TTTAGATGAG TCTATTTAT
117551 TTCTTTTAA ATTTTTAATT TTTATTAGAG GTGGGGTCTG GCTTTGTTGC
117601 CCAAGCTGGT CTCAAAACTC CTGGCCTCAA GCGATTGTAC TGCCCTAGCC
117651 TCCCAAAGGG CTAGGATAGG CATGAGCCAA CATGCCTGGC TTGTCTTATT
117701 TTTAACAAAGC ACTTCTGGTG ATTCTGATGG ACAATCAGGC TTGGGAAGTT
117751 CTAACCTAGA GGACCTACAG TTGTCTTGGG GTAGAACCCA AGGCTATCCT
117801 GTTTTTAGA ATCAGTGCCT TACTGGCAT CTCTGAAGAG TAAAAGTCAG
117851 GGACAGAGTT ACATTTTGG ACAAAACAG ATGCTGTGAA TGGACTCTG
117901 GTCACAACCT GGGTGGCGAC TTGGCTCTTA ACTTCTTCAT CATTCTGC
117951 TGACCCCTGTT CTTGGTTCA CAGCAAGTC CCTGATAAGA AGACTCAAAG
118001 ACTGCTAGTT TGTTACTTTA GATGATGCTT TTGGAACCTC TTGGTACCAT
118051 TTTAACAAATC CAAACGTATT TTATGAAAGC ACTCAAGTCC TGGGTCTTTA
118101 TTGTATCTT AAGCTCTAAC AGCATGATGA TTGAATAAGC TGTGGTTGGC
118151 CACACACAAG CCATCTTCCC CATGGCCTCC ATTCACTA GAATGAGCAG
118201 CTATACCCCA GTAGTATAGT TTTGGGATAT GGGTAACATC TTGGGATAGC
118251 CACATTTACT TAGTAAATGT CTGGCTTACA TTCTCCTAAT GGTGCACTGT
118301 TGGAAATTTT GGTGTGGTAA CCTGGAATAG TGTGGTGGG TCAAGTTGA
118351 TTAGCATCTT TGATAAGGAC CCGGTCTATT TAGAGGTTTG TCATTGAGTG
118401 TGTCTGTTT GGCCTCATGT TGTGAAGCAT GCTGTGTAGC AGCTGTTGTA
118451 ATTTTTGTTG CTTGTTTCT CAATCAACCC TGGTTTGAA GAAATGGGAA
118501 GTTGTCCAC TCTTAGACTG ATCTGACTTG GGAGGGGATT TTCAGTTCA
118551 GAAGTTGGAT CTTCTGAATG GAAGCAAAGA ATACATGTCT TTTGCCACT
118601 TTACAAGCTG GCTCTTGT TCTGAACATAT TTACTGGTC ATTGCAAATA
118651 GAATGTCAAG AGTAGCTGCC AAATACTAAG TTGTGTTCAAG TTTGTCAGTT
118701 CTTAACAGTT GCGGGTGGCT GCTCTGCTAT GCGTATGACT TTCTCAGCCT
118751 TAAACTTACA AGCCATACTG TTTTTTCAC ATCTTTAATA CAGCCATAGG
118801 AAATTTATAA CTGTGGCGTG TCGTCATAAA TATGCATTGT TCTTATTTA
118851 AGACATTTCA GTACTAAAAG TATAAGTACT TCTGTTATTA TCTGTGAATT
118901 TCTTCCCTC TTCTTTTTT GGATATTAA GACCTTTCG ATGTCAATAT
118951 ATATTTAAAA CAGACATATA AATTAGCATT CACCCACATA CCCAGGGCCT
119001 ATGGAGAACCC AGGTTGGGAT GAGTGGGTGA GCTACAGGCA GCCAGGTGGC
119051 TCCTGTGGGC TCCTCGAGGA CTGGGGTGAG TAACTAATGT CTGCTAGGAA
119101 CTTGGGGGAA AGAAGGTGTG TATGTTAGGT GCTGCCCCCT TCTAAGTGT
119151 CCTCTTGTTC ATAATTGAGT TTTTTTTTTT TTTTTAGAAGG
119201 AGTCTCGCTC TGTTGCCAGG CTGGAGTGCA GTGGTGTGAT CTCAGCTCAC

FIGURE 3SS

119251 TGCAACCTCT GCCTCCCGGG TTCAAGTGAT TCTCCTGCCT CAGCCTCCCG
119301 AGTAGCTGGG ACTACAGGCA TGCACCACCA TGCCCAGCTA ATTTTTGTAT
119351 TTTTAGTAAA GACGGGGTTT CACCATGTTG GCCAGGGTGG TCTCGATCTC
119401 TTGACCTTGT GATCCGCCCTG CCTCGGCCCTC CCAAAGTGCT GGGATTACAG
119451 GTGTGAGCCA CTGTGCCAG CCCATAAAC CAAATTTTT CAGCAATTGT
119501 TATAACAAGTG GAACCTTACT CTTCAAATGC AATTGTCAG TGTCTGGCTT
119551 AATGTCTGCT GTTGTCAAGAA ACCATGTGAA TGGAGTAGAT TCCCAGGTTA
119601 TAAGGAGCCCC CCAGGGAGGA TGCGCGAGTC ACTGGCTTCT CCAGGGGCT
119651 CTGGTTGGG GTTGCCCTGG TGCTGGGCAC ACTTCCTGGA GATTTTACTG
119701 GACCAGCCCTG AGGCCTTGG GGCTCTGTGC AGATGCTCTA CTTCTGACTT
119751 GTCTAGAGCT TTCTTCTAAT TCTGGACTAA AAGCAAGCAG GAGTTTGGAG
119801 GATGATGGTG AGAATTACA TCCCCGAGTT GGCTTTGGA ATGCAGTAGT
119851 TTGTGAGATT TAGTGTTTT TTTAAGAAGT ATATTCAAGT CTTGCCTTTT
119901 TCCCAGAAAG CATATGAGAC AACTTCCAAG ACATTTATAG CATGGCTAAT
119951 AAAATGGGAA ATCAGGGCGA AGGACAGGAG AACTCAATAA GGGTTAACAT
120001 GGCTACAGCG ATTGTCCTAA TGGGTTCTT TTGCTGCCA GAGCAGAAAG
120051 GATCATGCAG TAAAGTGGGG GGGAAAGAAAG GGAATTGAAT GGTAGGTGAA
120101 GACTTCATGT TGGTGCCAGG CACTGTGCCA GGCCCTCCTA GGACCTTGT
120151 TTACTCAATC CTCACACAGT GCTGCAAGAG GATTAGTCTT ATCCCTGTTT
120201 TAGAGAGGAT GAAACTGAAA GGCAGCGAGG TGAAGTCACC AGCAGGAGGC
120251 TGAAGCCGCC CAGGCTAACT GGCCTTATAG CTACCTAGGG ACTCAGGAAT
120301 ATCACACCTG TTTATCATCA AAAGGAGAAA GGATTTAGT TCCTTGGGGT
120351 AGAAGAGTTT CTTTTGCTA ATCAAACATT TTACTTGAGG CTTCATATT
120401 TTCTTCAAGA TTTTTTCCT GTGTATGTAC CAACACATGT AATAATTCT
120451 TGTTTATTTT AAAAAAGGGG TTGTACTTTA TTCTTACAA GATTTCACTT
120501 TATATTGTCA TGGACAATT TCCATGGCAG TATGAATAA TGGATCTGT
120551 TTGTTTTAA TATCTTTGTC TTATCCCATT GTTACATAT GTCATATTTT
120601 AGCCAGTCTC TAACTGATGG ATAGCTGAAT GATTTCCATG TTTTTTCCC
120651 CTGTTACAAA CAATACTGCA AGGAATCTAT TTATCTTCT ATTATCTGC
120701 AAACATTGTT AAGTACCTGT AAATTGTTAG AAGTGGAAATT ACTAGGTCAA
120751 AGGGGATATT TTACACTTA AATTTGAAT AGAGGCTGTC AGTTGCCTTC
120801 CACACTGACT ATAAAAGGAA AAGATTGTAT CACATTATT GCAAGCCTTC
120851 TGTATTCTGC TGGGTGCTGA GGGGAATACA GAAAGGATAT AAGAGTGGTT
120901 GCCCTCTAGG AATATCCGTC TACACTGTAC CTAATCCTAG GGAATGTCTG
120951 GGGTGTCAAC TTGGGGTGG GAAAGTGGGT GGATTTAATT CAACTGTTCA
121001 AGCTTGCCTT GCAAAACACTG TGCATGGTGT CTGGGACTAG TCTTTCATTA
121051 TATTGATTCC CCTGGGTAAAC AGATGTAATT TCCTTAGGGC AGGGACTTCA
121101 TCCTACATGA CTTACAGCGT GCCTTACACA TCTTCTTGC TTTGTGGAGA
121151 CCTTGTATT ATAACACGTC AGGTGATATT CGAGGATCTA ATTGAGGCAT
121201 TCCCTATTTT TGGGTGTGT AAGAATTAAT AACTTTGGCA TTCTATACAG
121251 GTCATGGAAT ATCAGCCTGG AGGGGACTTG CTGTCACTT TGAATAGATA
121301 TGAGGACCAG TTAGATGAAA ACCTGATACA GTTTACCTA GCTGAGCTGA
121351 TTTGGCTGT TCACAGCGTT CATCTGATGG GATACGTGCA TCGGTAAGTG
121401 AGACTCTGGT AGCATTTTA TGCTGAGGAT TTTCTGTGT CGCATAAGAG
121451 TTCCCTGCATG GAAATGAGTG GATGAGTGT TTCAAGATCA AGATAACGCC
121501 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
121551 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
121601 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
121651 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
121701 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
121751 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
121801 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN
121851 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNN

FIGURE 3TT

121901 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
121951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122501 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122551 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122651 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122701 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122751 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122801 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122851 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122901 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
122951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
123001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
123051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
123101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
123151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
123201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
123251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
123301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
123351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
123401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
123451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
123501 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
123551 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
123601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
123651 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
123701 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNAAAAAAA CTGATGCTAG
123751 TGAAAATGCA TAATTTAAGA GGTTAGAGAA GCTGCTCTTC AAAATGCC
123801 CCAAGTCTGA GAGTTAAC TTTACATAA AGGACAATAT GTAAAATTTT
123851 CTTTTCTTT TTTCTTTTT TTTGAGACGG AGTCTCGCTC TGTCCCCCAG
123901 GCTGGAGTGC AGTGGCGCGA TCTCGGCTCA CTGCAAGCTC CGCCCCCCTG
123951 GTTCACGCC ATTCTCCTGC CTCAGCCTCC CGAGTAGCTG GGACTGCAAG
124001 CGCCCGCCAC CATGCCAGC TAATTTTTG TATTTTTAGT AGAGACGGGG
124051 TTTCACCGTG TTAGCCAGGA TGGTCTCGAT CTCCTGACCT CGTATCCAC
124101 TCGCTTCGGC CTCCCAAAGT GCTGGGATT AAGGCATAAG CCACTGC
124151 CGGCTCTTT TTTCTTAAA CTGCTTCCAG AAAAGTGGAT ATTATTAGGT
124201 TGATGTTAAG AAAAGGCTTG GAGTTGCATT AACCTTTGC TTTCTAGCAT
124251 CTGGCCTGTC TGTTCCTGAG ACCTGAGACC TACCTGAGAT AATTTTCTTG
124301 GTGTTCAGGC CCTGGAAAA ATAAGTTCCC TATGTTGTCC AGTGTCAAAG
124351 TTTCTCAACC TCAGCACTAT TCTTTTTTC AGGTTATTTT CTTGTAATCT
124401 GTTCACTTGA TCATTACATT AAGAATTAGA TTATATTGCT ATAAC
124451 AGCATTAT GTTTAAAAA TTATGTACAA TTTAGAAACA GGCATGAAA
124501 CTTAGGTATT AAATTTAGTG GAATAAGCA CAGAAAAAAA GTTAAAATAA

FIGURE 3UU

| | | | | | |
|--------|-------------|-------------|-------------|------------|-------------|
| 124551 | TGCAGTTTA | TCACCTAGGA | TTAACACATT | ATATGGGCCG | GGTAGTGC |
| 124601 | CTCACACCTG | TAATCCCAGC | ACGTTGGAG | GTCGAGGCAG | GAGGATTGCT |
| 124651 | GGAGTTGAG | ACCAGCCTGG | GCAACAAAAT | GAGACCTAGT | CTCTACAAAA |
| 124701 | AATCAAAAAA | TTAGCCAGAC | ATGGTAGTAC | ATGCTTGAG | CTCCAGCCAC |
| 124751 | ATGGGAGGCC | AAGACAGTAG | GATCGCTGGA | GCGAAGGAGG | TTGAGGCTGC |
| 124801 | AATGACCGTG | TTTGACCAT | TGCATTCCAG | CCTGGCGAC | AGAACAAAGAC |
| 124851 | CCTGTCTTAA | AACAAATTAA | TATGCTGCAT | TCGTGAAATT | AAAAAAAAT |
| 124901 | CATGGATTAA | GAATAAAATT | GAAGCAAGGT | ACATTGACAG | TGAAACCTCA |
| 124951 | GCACTACTGA | CATTTGATC | TGAATAATT | TTTGTGTGG | GGGATGCGCT |
| 125001 | GTATAAGATG | TTTAGCTGCA | TCCCTGACTC | CTACCTCCTA | GATGCCATTA |
| 125051 | GCACCCCTCCC | CTCCAGATGT | GATAACAAA | AATGTCTCTA | GACATTGCCA |
| 125101 | GATGTGCCTG | GGGTAGGAGG | GTTGGGGAA | GTGGGGTTT | AGAACCTTA |
| 125151 | TTTGATCATG | CCTGCAGTAG | GTTGAGAAGC | ATCAGAAAGC | TAATTAATT |
| 125201 | GACAGGAATA | TGTGTTTGCA | GTAAGAAAAC | CTCAGCAAAC | TAATCAAGTT |
| 125251 | CCAAAGTTAC | TGCTTGGTAA | ATAAATAGGA | ATTAAGAATA | AGACCCATAC |
| 125301 | TCTGTGTCTG | GGGTCAATTCT | CTTCGGAGCT | CTTGGTGGAG | AGACAGGGTT |
| 125351 | CCCAGTTCA | ATTTTTAGT | GCTTCAGACT | GCCCTTTCA | GTTATAATTG |
| 125401 | TAACAACCTT | CACTCCAGGT | GGGGAGCCTC | CCAGGTTTAT | TTACAACAAG |
| 125451 | GCTCAATCTC | TGATTATTTT | GGTCAAGGAG | ATATGACACT | CTATACCACA |
| 125501 | CACTTGAGAA | TATTGCCTCT | CTTTTTCTCT | TGAGCTTTA | GGGTTGGAAC |
| 125551 | GTGACAGGCA | GATAAGGAAT | TTTTTGCATT | AAGTGCAAAG | TCCTTTTCT |
| 125601 | TATAGAAGAG | CAATAATCTG | CACACTAGAT | CAAGTCAAGT | GTGGATATAAA |
| 125651 | AATTATAATT | TTTGGGGGGG | TATTTTTAAT | AGTGGTTTTG | GGTTAAACAT |
| 125701 | ATTTCCCTTA | AATGAAATGT | CTGTAGGCCT | AAAGTAGGTT | CTAAATGTTG |
| 125751 | CCTGTACTCA | TAGTATACCA | TATAAAATAT | AATCCACATT | TACTGGAACT |
| 125801 | ACCATATATT | ACTTACCCCA | AATCAATCAA | TCCCTCCCT | ATCACCCCCA |
| 125851 | CGTAAGATCT | TCGTATTTG | GATACCTGTG | AATCTTAGAT | CTGTTCAAGTT |
| 125901 | TTCCATTATC | CATTGTCTTA | TTTCAAGCTT | CTCATTAGA | ATGTTGCTTT |
| 125951 | GGAGTATT | CTGTTAGTAA | ACACAGGGCC | TAGTGACTCT | AGGACCTGCT |
| 126001 | GTGTGACTTA | GGTCACCCAC | TTCACCTTAT | TAGAATCTCA | AAGAATGGTG |
| 126051 | AACAGCTGAG | TTCCAATCTG | TCTCATTGG | CTCTCATGAA | AACAGTCATA |
| 126101 | AGGAGATTGT | AGATAAAACCA | CATTATATAG | CATAGTAAGT | GATAATCAAC |
| 126151 | CCCATTGGC | AGTTGCAACC | CCACAAGAGA | TAGCCCTTT | TAGATTTGTG |
| 126201 | TAGGAGTGAA | AAGCTTTATT | TTCCACAAAGA | GGAACGACAT | AGTAAGAACT |
| 126251 | CCTTCCCCC | CTGCTCTGC | AGGTATATGC | TTATGCCCTA | GGCAACTTGA |
| 126301 | TGGGTAAAGT | TAGGTTTAAA | TAGTTTTATT | TGTAAGCTCT | TCTCTCTCT |
| 126351 | TCTCTTCTCT | TCTCTTCTCT | TCTCTTCTCT | TCTTTCTTT | CAAGACAGAG |
| 126401 | TCTTGCTCTG | TCACCCAGGC | TGGAGTGCAG | TGGCGACCT | TGGCTCACTG |
| 126451 | CAACCTCCGC | CTCCTGGGTT | CAAGAGATT | TCCTGCCTCA | GCTCCCCGAG |
| 126501 | TAGCTGGGAT | TACAGGTGCC | CGCCACCATG | CCTGGCTAAT | TTTTGTATTT |
| 126551 | TTAGTAGAGA | TGGGGTTTCA | CCATGTTGAA | GCATTTTAGG | AAAGGGGTTA |
| 126601 | GGAGGAGGAA | GACANNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 126651 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNTCTC | CCCCTTCTC | CCAAAATATG |
| 126701 | GCAGACTCTT | CTGCCCCCTA | GTCATTCTCA | TATAGTCTTC | TGAACCTTGT |
| 126751 | TATTTCTTC | CCTGTTAATA | CAGTAAAAT | TAACTAAGTT | GGCCAGGAGT |
| 126801 | GGTGGCACAT | GCCTGTAATC | CCAGCACTTT | GGGAGGCCGA | GGCGAGCAGA |
| 126851 | TCACCTGAGG | TCAGGAGTTT | GAGACCAGCC | TGGCCAACAT | GGTAAACCC |
| 126901 | TGTCTCTACT | AAAAAAAAT | TGTAAAAGTT | AGCTGGGTGT | GGTGGTGCAG |
| 126951 | ACCTGTAGTC | CCAGCTATTC | GGGAGGCTGA | GGCAGGAGAA | TTGCTGAAC |
| 127001 | CCAGGGGCTG | GAGGTTGCAG | TGAGCCAAGA | TCGCGCCACT | GCACTCTAGC |
| 127051 | CTGGGCGACA | GAGCAGTCTT | TAACAAAAAA | AAAAAATTAA | CTAAGTTAAG |
| 127101 | TAGTACTTGG | GCCCTATCAG | ATAGTGCCT | CCTGCAGGCA | GGCTGGGCC |
| 127151 | CTACTACAGT | TTCACTTTA | ATATCTCACC | GAGATTAGCT | GACTGAATTG |

FIGURE 3VV

127201 CCACCAAGAGG AGAGTGAAAG CATATTGCAA AATCATAATC AGGACATGTG
127251 AGATTATGTG TTGAACAGGT TTAATGTGCT TGGGGTCAG TGACTAATGG
127301 GAACTTAGCA GTCATTAACT GTCATTTAAA ACGTTGTTA ATTACTATTA
127351 CACACTTAGA GATTGTTAA TTAACAAAGA GTAATGCCCT TGCTAATCAC
127401 TATTATGCAC TTAAGAGGAA GCCAGTGGGT ATTTTCCCT TCATAGCTTT
127451 CTAGTACAAA TTAATAAAAT TTAGAAAATT AGAAAATGAT TGTGCATAAA
127501 TGTGTATAAT CATGTATCTG TTAGGGGGCA AAAATTAGTT GGGGAATTAT
127551 CTTCTTTGA TAAGTCTTAT CATTAGTTG AAAATGGGC ATTGGCAATT
127601 CATACTGTT GGCTGGGTTG TCCTGAGAAA CACTCCCCAG TCAATTCTGT
127651 TTTTGCACACT CTTTGGTTGT GAACAAGTGA CTGCCCTGT AGCTGCAAAT
127701 AAGGAGAACT GAATATTCTC GAACAGTCTG TGGCAATAAA AATGAAATCC
127751 AGTAAGTGCA AATGGTATGT ATTCAACAAT TCGTAGTTA GGTCTGCAA
127801 GTAAATTAGA CATAAAGGAT AAGTATTTAA TCAACAATAT AGTAGCATT
127851 TCATTACCTA GTCAAATCAA GATGTTACAG TTTCCCTCT CTTGTTTGT
127901 TATTTAAAAAA ATATCTATTG TGGCCAGGCT CGTGGCTCA CACTTGTAAAT
127951 CCCAGCACTT TGGGAGGCCA AGATGGGTGG ATCACGAGGT CAAGAGATCG
128001 AGACCACCTT GGCCAAACAT AGTGAAACCC CGTCTCTACT AAAAATACAA
128051 AAATTATCTG GGTGTGGTGG CATGCACCTG TAGTCGAGT TACTCGAGAG
128101 GCTGAGGCAA GAGAATTGCT TGAACCTGGG AGGAGGAGGT TGCAGTGAGC
128151 TGAGATCGCA GCACTGCACT CCAGCCTGGT GACAGAGCGA GACTCCATCT
128201 CGGAAAAAAA AAAAAATCTA TTGGTTATTG TTGGTGCATT TTAACCAAAA
128251 CCCTTAGTT TAACCCTAAC CTGTGCTGAG CTCTTTAACCA TTTACATACA
128301 TATTTAAAAAA CAGAACATCAGC CCAGATTCC CAACATATTA AGTCTTCTCC
128351 TTGACTTAAG CTACTTTCAAGC TTCTTCAAGC TTAAGTCACC CTGTGGTTT
128401 GTCTTAGGCC AAATATTTTC CCCTTTGTCT CCCCTCTGT CTATCAAGCC
128451 AAGCCTGCCT GTGGGTTTTG GATAGTGTGA CCATCTGGCT TTCTTGAAGG
128501 GGCACTTACA GGGGAAGTTT TATTGCCAA ACCGGTGGAC AATCCATGTC
128551 AGGAATGATT ATATCACACT GCTTTCTGGG TTTAGGGCTT GGAAAAACCT
128601 GTATCAGAGC GTGGGCCCTA GGGAAAGAGGT AAAAGAGAG GAGAGGGAAAG
128651 AATAGGTCTG TTTCATATAA CGAGAAAGTC TCATGGCAGA GGAATGGATG
128701 AGATTCAAGT TACAGGCTGG AAGAGCTTCA TCCAGAATCA GCCCCGGGGA
128751 GAGGAGACCT CATCACGTCC TCACTAAACA TTCACTTTCC TCTCCACACC
128801 CAGTTAAAGT AAAGCAAATT TACTTCCTTG GTGAAAGGCC CAGCCTTCAA
128851 GGTATGTGGA CTTACCCACA AAATCTCTG GCTCACTCAG TTTCACTTAC
128901 CATCGTTAA TGAGGAAAAA GTTCTTTGT ACCATGTAAC TGCTGACCTG
128951 AGAGAAGCCC ATTATGATAT AGAGTTATAG GACAGCTGGC CAACACACTA
129001 TATAGCTAAA ATCAGGGCCT CTCTGTTTTG ATGGGGAGAA AAGTTAGAGA
129051 AGGAATCTT AGACTTCAAAT TTTCATGGCT CAGTAAACG TCAAATAAT
129101 TTTGAAGACC AAAGGGGTTG CCAGCTTACT AGGCTGCCTA GACAGGGGTG
129151 GGTATGAGGG GAAGAAAGCC TGCTTCTTTC ATCAACAGCA TATCCAGAAA
129201 CAAAGGACAT TAAACACTA AAAAAGTCAG AAGGACAAAT TCTCAGAAAA
129251 AAAGGACAGT CCTTTAAATG GGTTACATT AGCTTTATAA AATGCCCTCC
129301 TGTATTGTCC TAATCTTCT TTGCCAAGGT CAAGTCTTG GGTGCCATTG
129351 GATTATAAGC CCCTGGGTTT CTGAACGGTG GGGGAGGGAA CCACAGGAAC
129401 AAGGGTTAGG GGTGAGGAAA AAGAAACTCAT TAACCTGGG CCCTGGGTGG
129451 AAGTTAATTA TCATGTCTTG CCCTGTGGGT GGGTTGAAGT AGGAACGTTA
129501 ATTCCAAAGG CAGTTTCCA AATTTTGAA CTTGAGATT GTAATATTAT
129551 CTTGCCAGTT AGCCACCGT TCTCTCTCT TTTTCTTTT CTTTCTTAC
129601 AGTCTCGCTG TCACCCAGGC TGCACTGTAA TGGCGCAATC TTGGCTCACT
129651 GCAACCTCCG CCTCCAGGT TCAAGCGATT CTTGTGCCCT AGCCTCCCGA
129701 GTAGCTGGGA CCACAGGTGT GCACCAC ACCTGACTAA TTTTGTATT
129751 TTTAATAGAG ATGGGGCTTC ACCATGTTGG CCATGCTGGT CTCAAACCTCC
129801 TGGCCTCAAA TGATCCACCC ACCTTGGCCT CCCAAAGTGT TGGGATTACA

FIGURE 3WW

| | | | | | |
|--------|------------|-------------|------------|------------|------------|
| 129851 | GGCATGGGCC | ACTGCACCTG | GCCAAGTGC | AGTTTTCTAG | TAATGGTTAG |
| 129901 | GTTGATATT | TAGATTCA | TTTAGAGTTT | ATTATCATT | TGCTGTTATC |
| 129951 | ATAAGAGAAG | TTCCATCATG | TCAATAACTT | GTATTAGGAA | AGACATCTTC |
| 130001 | CATTCCCGGT | ATATCCA | CTCATTGTA | TAAC | CTGTGTG |
| 130051 | ATCATCAACA | ATTCTTGCCC | TTTGCCCTT | GGATTGCATT | ATATGCTGTG |
| 130101 | TGCTTTTTT | TTTTTTAAA | TTAGTAAAGC | TTTGCATT | CCTGACAGTG |
| 130151 | TGCCACTTGA | CAGCTGGTTT | AAGTGCCTGG | GAGAATAGTA | ATCAGTGGCA |
| 130201 | AATCAGCTTG | TGCTGAAAT | GTGGCTGTTG | GCAGTCACT | TGAGGATAAT |
| 130251 | TGAAAGTTG | CTGTATTCGT | TTTATTGATG | GGATTCTAGG | TGAATGCCAA |
| 130301 | ACTCCCGATT | GGGACCCCAG | ATTACATGGC | TCCTGAAGTG | CTGACTGTGA |
| 130351 | TGAACGGGGA | TGGAAAAGGC | ACCTACGGCC | TGGACTGTGA | CTGGTGGTCA |
| 130401 | GTGGGCGTGA | TTGCCTATGA | GATGATTAT | GGGAGATCCC | CCTTCGCAGA |
| 130451 | GGGAACCTCT | GCCAGAACCT | TCAATAACAT | TATGAATTTC | CAGGTAAGA |
| 130501 | GTCCTTAGAA | GATTTCGAAG | TCACATTGAG | AAACGTTATT | AAAAAATTGT |
| 130551 | GCGAATGAGG | CTGGGCCGTG | GGTGGCTCAT | GCCTGTAATC | CCGGCACTTT |
| 130601 | GGGAGGCCGA | GGTGGGTGGA | TCACGAGGTC | AGGAGATCGA | GACCATCCTG |
| 130651 | GCTAACATGG | TGAAACCCCCA | TCTCTACTAA | AAAATACAAA | AAAATTAGCC |
| 130701 | AGTTGTGGTG | GTGGGCGCCT | GTAGTCCCAG | CTANNNNNNN | NNNNNNNNNN |
| 130751 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 130801 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 130851 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 130901 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 130951 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131001 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131051 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131101 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131151 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131201 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131251 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131301 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131351 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131401 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131451 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131501 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131551 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131601 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131651 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131701 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131751 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131801 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131851 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131901 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 131951 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132001 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132051 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132101 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132151 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132201 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132251 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132301 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132351 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132401 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132451 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |

FIGURE 3XX

| | | | | | | |
|--------|------------|-------------|------------|-------------|------------|------------|
| 132501 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132551 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132601 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132651 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132701 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132751 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132801 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132851 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132901 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 132951 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133001 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133051 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133101 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133151 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133201 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133251 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133301 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133351 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133401 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133451 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133501 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133551 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133601 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133651 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133701 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133751 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133801 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133851 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133901 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 133951 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 134001 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 134051 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 134101 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 134151 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 134201 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 134251 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 134301 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 134351 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 134401 | NNNNNNNNNN | NNATTGCTTT | ATTTTCTAA | ATAAATAGAC | ATCTCCCCC | |
| 134451 | AAATCTCAA | GGTTCAAGACC | TTCTAATCAG | TAATATATTT | TCAGGGCATT | |
| 134501 | CTTCCTTTA | TGCTTTAGA | AAGATGTAAT | AGACTTCTT | TTAGATGCTG | |
| 134551 | TTCAAGTACT | TAATCTTTTC | TTGTCTTGCC | TTTTATCTC | TGTAATCTTC | |
| 134601 | TTGAATAAGC | AGTTAATTTT | TTTTATTAT | GAACCTGCTG | ATCATGTCTA | |
| 134651 | AGAATGTATC | TCCACTTAAG | TAAGTCAGTG | AATGGTGTATT | ACCTGAGTAG | |
| 134701 | AGTTAAAGTA | GTCCCCCACC | CTCCTATCTG | TGGCACATAT | GTTCCAAGTC | |
| 134751 | TCCCAGTGG | TGTGTGAAAC | TGATGATAGT | ACTGAAACCC | ATCTACCTTT | |
| 134801 | TTTCCTGTGC | ATACATACCT | ATGTTATATA | AAGCTTAACCT | TATAAATTAG | |
| 134851 | GCATAATATA | TTTGACTCCC | AGCTCCCACT | GTAGTGGCTC | TGCAGACTCA | |
| 134901 | CAAAATGTAT | TTGCTTTAAA | AAATTCTTTT | TTTTTTTTT | GAGACGGAGT | |
| 134951 | TTTGCTCTTG | TTGCCAGGC | TGGAGTGCAG | TGGTGCGACC | TCAGCTCACT | |
| 135001 | GCAACCTCCG | CCTCTGGGT | TCAAGCGATT | CTCCTGCCCT | AGCCTCCCAA | |
| 135051 | GTAGCTGGGA | TTATAGGCAT | GCACCAC | ACCCAGCTAA | TTTTCTATT | |
| 135101 | TTCGTAGAAA | CGGTTTTCC | ATGTTGGTCA | GGCTGATCTT | GAACTCCTGA | |

FIGURE 3YY

135151 CCTCAGGTGA TCTGCCTGCC TCGGCCTTCC AAAGTGCTGG GATTACAGGT
135201 GTGAGCCACC ACGCCTGGCC AAAAATTCT TTTAATTAA GTAAATCTT
135251 ATTTATTTAC TTTTGAGACA GAGTCTCACT CTGTGGCCA GGCAGGAATG
135301 CAGTGGTGTG ATCACGGCTC ACTGCAGCCT CGACCTCCC TGCTCAAGCA
135351 GTCCTCCCAC CTCAGCCTCC TAAGTAGCTA GGACTACAGG TGTGTGCCAT
135401 CACACTCTGC TAATTTTTT GTATTGTAG AGACGCGGTT TCACCAGGTT
135451 GCCCAGGCTG GTCTTGAAC CCTGAGCTCA AGTGTACCTC CTGCTTGGC
135501 CTCCCCAAAAT ACTGGGATTA CAGGGGTGAG CCATTGCACC CAGCCCTAAT
135551 TTTAATAAAAT CTTTTATTTT GGAATAGTAT TAGATTATA GAAAAGTTGC
135601 AAAGATAGTA TGGAAGAGTT CCCACATACC TTTCACCCAG TTTTCCCCAA
135651 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
135701 TATTTATTTA TTTATTTTTT GAGACACAGT CTTCGGCTCG CCCAGGCTGG
135751 AGTGTGGTGG CACGATCTCG GCTCACTGCA ACCTCCGCCT CCTGGGTTCA
135801 AGTGTATTCTT CTGCCTCAGC CTCCGAGTAG CTGGGACCAC AGGTGTGCGC
135851 CACCATGCC C GGCTACTTTT TGTATTTCAG GTAGAGACAG GGTTTACCA
135901 TGTTGGTCAG GCTGATCTCA AGCTCCTGAC CTCAGGTGAT CTGCCTACCT
135951 TAGCCTCCC AAGTGCTGGG ATTACAGACA TGAGCCACCG CACCCAGCCC
136001 CCAGTGTAA CTCTTACATA ACAGTGTAC TGTCTAAGTG TTTGAAAAAC
136051 TATTTGTCAA AACTAATATT GGTACATTAT TGTTAACTAC ACTTCAGACT
136101 TTTTTGGAT TTTACCAATT CTCCCACTCA TGTCCTTTT CTGTTTCAGG
136151 AATCAATCCG TGGTACCAT A TTGCAGTTAG GGTGTTTATA TTTGATGGGA
136201 CTGGTCCTAG TTTAGATACT TAGTGTAGCT CAGCCAGCAG GTGGGATCTT
136251 CATGCCACC GAGGATTGGT ATTGTGTTTT CCTGGTGGTT TTATGGCATT
136301 TCCGACTATG CAGAGAGGCA TGGTATTAAC TTCAGTGTCT CCTAGCAAAT
136351 TTTCCTGTTT TTCAACCAACC TCTGATCCCT GCATTATTTG CAATCAACTC
136401 AGAGATTTGT GATTGAAAAC ATTGCTTGAC TCCATGCTCT TTAAGCTATT
136451 TTCTAACTAG GTAACGTGAA CATAAATTAT GCTTTATCT AGCACTGTTT
136501 TTCATAAAC A CATGTTGAGT GATTTTCATC AACCGAAATA CTTCGAACAT
136551 TTAAGTTTC CAAGTTCATG GATGCTGCTT AAATGCCTGG TGGTTCCAGG
136601 CTGTCGAATA TTTCTGCCTT CTGCAATAAG AGATTGTCCC TTGTTAAAAG
136651 CAACATTAGC CTTTGTGCGG TTTCACCCCC AATTCTTCTT TTTCTTGTG
136701 TAACCAATGA AAGGAAGTAC TGCTTAACAC AGCAGGTAAT AATCTTCTAA
136751 AACTCATTAT CTCAAGAGGT GGTCTGGCA GGATATATAA ATGCAATTAA
136801 AGAAAGGTCT TGGCAAATT ATGAATGACA GAACTGGGAG TGGCTACCGA
136851 GAGAAACTAG GATGCGCCTT TGCTTGACA CTGAGGTCA GCGTAGCTTC
136901 TGTACCCCTCC TGGGTCTGC CTCTTGGGGT TGCTGCAGGC AGCACCCAT
136951 GAACCAGGCA TCTGACCCAG TTCCAGGATA CTTATTCTTC CAGCAAGTCG
137001 AACACTCTGT GATGAGTGAC TGCCATGCTC ATGGGTCACTC AGGCTCTCAT
137051 TATTCTGTTT CATTTCAGC CTCCCACAAG ATTGGTTTT CAGCTGTTA
137101 TTTATTATTA TCATTATTTA AAGGCTGCTT TCCAAGTTTC AGTGGGGGGT
137151 TCCCTAAGCG TACCAAGCTGC CCTGGTTGTG CAGTCCGGT GATGTTTCAG
137201 ATGCTGGGCC GGATTCTGGC TGTACCCAGC CTGATCTTC TGGGCTTCAG
137251 GAAAGCTGAA GCCAATCAGA GCTCCTCTT CATGCCTTT GGATTATGCT
137301 TACCTTGCC TGGCATCGTGT ACCTGCTCCC ATCCATGGGA AAGTTTGCT
137351 GTCTGGTACT GTCTTCTATC AACATTTTT AAGATATCTT CCCCCGAGGC
137401 ATCGTGATGT CAACGGAAC C AGCACACTTG TACGTTTAT GCAAGACTGC
137451 CATATCTCAA CAGTGAGAAA TGCAATGG AAGTGGTGAT CACGGATTAT
137501 TCCCTAGGAC ATTATGGCTA ATGCGCTAGA GAACTCGGAT GGTCTGTTGC
137551 GTCTGACATG GGCTTTTCT CTTGAGTTGT CTTTCTTTG CTATTCTCTG
137601 AAAGAAACAA TTCTTGCCAC ATGATCCTGA TTTTCAGGT CCTCAGCATT
137651 TGTTAGCAGA AAGTACACTT TGTTTCCATC CGGCACTGAC TCAGTGGTGG
137701 TCCCATGCTG ATGAAACGCT GAGATAGTCT TCTTCAAAT AGGTATCGTT
137751 TTGATTGTTG CTGCTTATT GCTAGCTGGC CCTCAATAGT GACAATGAAA

FIGURE 3ZZ

137801 CCTCAAGTGT ATAATATGGT TGCTCAGTAA TCCTGAGGGA AGACAGTCTT
137851 TGGTTTGGGG GATAGGGATT CTGTGCCTAC TTAGCTTCAG GTGAAAGTCT
137901 TACAAATTTC TGTGTGTAGA AATAAGCAC ATGTACCTCC TTGGGTTTTT
137951 TCTTTTTTT TCTAGTCCTT TAGTATGGTC AACAAATATTG TTTAGGGAGT
138001 ACCTATTCTG TGCTAACCCAC TAGGCATTCA AGTATATTAC ACTATGCTCC
138051 TTCAAAACAC TTCTGTCAAA TGTAAGGATT ATTATAACCA TTTTACAGAT
138101 GTGGTTACTG TGGTAACCTTG GCCAAGGTCA TAGGGCAAGT GAATAAGGGGA
138151 TTCTGGATTG GGGTGGAGGT CTGTGTGATT CCAAAGCCCAG TGCTCTTTCT
138201 ACAAACTAT ATATGCCCTT GCATAAGTTA TTGTTATTAG TAATAATATT
138251 TGTGATGATG GCAAATAATA ACCATGTCA CACTAGAGAG TGATTTAATC
138301 TCTAGGTCTA TTTAAGAACCA TTTGGAATTG CAGGAATTGG ATTTTTTTTT
138351 TTTTTAAGT GATGGAGTCT TGCCATCTT GCCCAGGCTG GTCTCAAAC
138401 TGTGGGCTCA AGTGTATCATC CTCCCTCTGC CTCCCAAAGT GATGGGATTA
138451 CAGATATGAG CCACCATGCC CAGCCTAGAA TTGCAGGAAT TTTGAATTG
138501 ATGATTCTT CTGATATTG AATTCTACA GTATGTTAAG TGCAATGTCA
138551 GGTGCTGGTG CTGTTGCTCG ATTGATGAAC ACATTTGGGT ATGGCCCTAC
138601 CTTCATTGAA TTTAGAGTCT AAGAGCCTAA CCGGTCTTT GCTTGAATAG
138651 AGCTGTAGTC CTGTTAAATT GCTGTACCTC CAAATGGTGG GAAGTTTAAT
138701 GCTTCGTAGG CCTCCCCCTCA CTAGTTTACT GAACCACATG TGCTTGATTT
138751 TTTTTGANN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN
138801 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN CTCACTGCAA GCTCCGCCTC
138851 CCAGGTTTCAC GCCATTCTTC TGCCCTCAGCC TCCCGAGTAG CTGGGACTAC
138901 AGGTGCCCGC CAACACGGCC CGGCTAATTG TTTGTATTT TTAGTAGAGA
138951 CAGGGTTTA CCATGTTAGC CAGGATGGTC TCGGTCTGCT GACCTCGTGA
139001 TCCACCTGCC TCAGCCTCCC AAAGTGCTGG GATTACAGGC ATGAGCCACT
139051 GTGCCCTGGCC CCACATGTGC TTGATTTAA GCAAATACA GACTATAGGC
139101 TGTGACCTGG TGATCTCTTC CCCACATACA GCATCCTGCT AACCTATAAC
139151 TCTCCCCATG TCTCAGATCT AGCCTGGAA AGGACAATGT TGGATCGATG
139201 GCCCACTTCT AATCTTGGGA TTTCTAATCT CAAGATGAGT TGAGAAGACT
139251 CAGGATGTGT CCTGTTTTCT GTTTATTAG AACAGGGTTT CTCAGCCTTG
139301 GCACTGTTGA CATTGGGGC CAGATAATTG TTTGCTGTGG GGGCTGTTGT
139351 GTGAATTGCA GGATGTTGAA CAGCATCGCT GTGCTTCTC CATGGATACC
139401 AGTAGCACCC TCCCCCTGCA GTTGCAACAA CAAAAAATGA CTCTAGACAT
139451 TGCCCACTCT CCCCTGGGG GCTACAGTCA CCTTCAGTTG AGAACCCATTG
139501 ATTTAGAAGA ATTGGCCAGG TTATTATCAG GAGAGGGAAC ATCACAGTAA
139551 TCTGAATCTC TCAATACTGC CACTGTTACT GTTAACGAAC AGCAAAACTA
139601 TTACGTGGAG GCAGTAGGAC CTTGCTACTC AGAGTGTGGT CCGTGGACCG
139651 GCAGCATCGG AATCATCTAG GAGCTTGTAA GAGCTTCAGA GACTCAGGCC
139701 TACTGAGTCA GAAGCTGCAT TTTAATAAGG ATCCCCAGGG GATTTCTGTG
139751 CATATTAGAG TTGTGAAGCC CTGCAAGAGG AAGAAATTGG ATGCTAGCCT
139801 CAGAGTTCT TGCTCATCTT TGTGGGTCTT CCTACCTTT GTCTTCGGGC
139851 TTAAGGTATG GGGAGGCCAC TTTTGGCTC AGGACTCCTA TGGGTGAATG
139901 GGACTGCTTA GAACTGCTGG GTTTTAGGCC TTGCTTTGAG GAATTTAAAG
139951 CTTTTCTCTT AGATGGACAT TACATCGTTC ATATACTTCA AAATGGTGGT
140001 TTGACCTAAT CTCTGCCTTC TGATAGCAAA AAGATATTTC CTTGACTCCC
140051 TGAACCCCAC TTTACTGTTG TCCCATATTG GATTTTAATT AAGGGTGGAA
140101 TAAGTATTCT TCACTAACAT GTTTATAACAT GTATGATATT ACCATGCCAT
140151 TTATTGAGTG CCTAGTATGT GCCAGGAGCT CTGCAAAGTG CTTTATGCTT
140201 ATTATTGTTT CATTATTCT TCCCCAAACC TCTGTGAGGC AGGTCCCTATC
140251 ACTAGTCCAC AATACAAATG AGGTCACTGG ACGCCGAAGTT GGCAGTGGTA
140301 GGAATCAAAC TCAGGTCTCC CTGACTCTAA ATTCTCTTTG CTTTGTTTT
140351 TTTGAAAAG TGGTATAGCC CATAGCAGAA AATTACACATT ATACAGAAGG
140401 TTATACGGCG AAAAATGCCT CCTTCCCACC CCACGCTCAA CCCCTCTCCC

FIGURE 3AAA

| | | | | | |
|--------|------------|------------|------------|-------------|------------|
| 140451 | TCAAGCGGAA | CCACTATTGT | CAGTTCTCA | TAGAACTTTC | CAGAATATTG |
| 140501 | TATGCTCCTA | TAACACTAGC | ACAACCTATC | CTCTTAACAA | CATCTTTATG |
| 140551 | CTGCCTCCCA | AGAATTCACT | AATTTTTTTT | TTTTTGAGAT | GGAGTTTGCG |
| 140601 | TCTAGTTGCC | CAGGCTGGAG | TGCAATGGCG | TGATCTCGGC | TCATTGCAAC |
| 140651 | CTCTGCCTCC | CACGTTCAAG | TGATTCTCTT | GCCTCAGCCT | CCCGAGTAGC |
| 140701 | TGGGATTACA | GGCATGCGCC | ACTATGCTTG | GCTAATTTG | TATTTTTAGT |
| 140751 | AGAGATGGGG | TTTCTCCCCT | GTTGGTCAGG | CTGGTCTTGA | ACTCCCAACC |
| 140801 | TCAGGTAATC | CGCCCACCTC | GGCCTCCCAA | AGTGGTGGAGA | TTACAGGCGT |
| 140851 | GAGCCACCGC | ACCTGGCCAA | ATTCAGTAAT | TTTTATTGGC | AGGTTATTTT |
| 140901 | CCCGCATCAT | TNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 140951 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 141001 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 141051 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 141101 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 141151 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 141201 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 141251 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 141301 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 141351 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 141401 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 141451 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 141501 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
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| 141701 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
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| 142051 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 142101 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 142151 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 142201 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 142251 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 142301 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 142351 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
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| 142451 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 142501 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 142551 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 142601 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 142651 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
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| 143001 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 143051 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |

FIGURE 3BBB

FIGURE 3CCCC

145751 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
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146451 CTTAGTGTAG ATCTGCCTAA GTGTAGAATT TGAGAATT TGATGTTGA
146501 CTATTGTAGA CTTGTCTTT AGAGTTCTA GCACTAGCCT CTTCCACCCA
146551 TCACTATTGA GATGATTGTA TCCGTCTCAG TACTGACACT AACCCAGCAC
146601 TCTGGTTTA CATCTGTCAA TCCATCAAGA CTTCACTTTC ACTTTCTTCC
146651 CTGCCCTCATT ATTCACTATG CTCTTGGGCC ATTGCTCTGG CTTCTGGGC
146701 TTTTCTAAAG TAGCACTTTT CCCCACCTCA GCCCATGAAG ATACCTTTA
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146801 GCAAAAAAGT ACTGCATTCC CCACTGGCAA AACTTGCCAT CAGCCAGTTT
146851 ATGTATTCTC TGCTTTCAC ACCCATATCT TGACCTCTGA ACAACACACA
146901 TATTCTCCTC TTCACTTATT TCACAGTTCT GTCTTCATAA CATTGATAAG
146951 TATGATCACA TTAGCGCTCT AGATTTAAG CAACTGGAAG ATAGCTATT
147001 TTTTGGTACT CTTCCTTAA ATTTGAACAT AGTGTCTAAT TAGTCAATTA
147051 ACATTTTTT AAAAGGGCGA GGGACATCAT GGTAGAGAGA ACGAAGTTGA
147101 ACGTGTTTT GGTTGAATAT TAGCGCATGC CCACTGTATT CTAGGCACAG
147151 TCCTGATTCA TTATATCATC ACACAATAAT TATTTATGTG CCTTCATCCT
147201 TTATGACACA GTGCTGGCTC TTATTCACT CCCATTCTG CAATCCATGG
147251 TGATGATTAA AAGTCTTAGG AGTTTACGA GGCTCAGTAT TTTTTTTTTT
147301 TAATATGCTA GTTCTTCATG AATACATTGG GTACTCTGAA GCATATCATT
147351 TCCTGGTTT CCTGAAGTGG TATGTTCGT GGAATGGCAC ATTAGGTCTA
147401 ATAATTATC CCCTATGTAA GGGGTCTTGT TTTTCATTCA TTCTCTTAA
147451 AAATAGATAT TAAACATTAA ATAAGGACAG CCAGGNNNNN NNNNNNNNNN
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148301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
148351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

FIGURE 3DDD

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149901 NNNNNNNNNN NNNNNNNNNNT TCCTTTTTT TTTTTTTT TTTTTTGAGA
149951 CGGTGTTTCG CTCTGTTCC CCAGGCTGGA GTGCACTGGC ACGATCTGG
150001 CTCACTGCAA CCTCCACCTC CCAGGTTCAA GCGATTCTCT TGCCTCAGCC
150051 TCCCAAGTAG CTGGGACTAC AGGCATGCAC CATCACATCT GGCTAATTTT
150101 TTGTATTAA TAATAGAGAT GGGGTTTAC CATGTTGCC AGGCTGGCT
150151 TGAACCTCTG ACCTCAGGTG ATCCACCTGC CTCGCCCTCC CAAGGTGCTG
150201 GGATTACAGG CATGAGCCAC TGTGCCTGGC CTACTTCTTC TTCCCTTTAA
150251 CTTGAAGATT ATCTGCCCT TTTCTAATC TTAACCGCAT TAAGCTGGCT
150301 TTGAGCATGG CAAGAGTTT ATAGATGAAT CTTATTAT AGTACAGGAT
150351 TTCAAAATCA TAATTATTT ACTGAGGGTG GCTTTAACCC TCCATTAATT
150401 ATACTTCTCA CTCAGAAATG GAATTCTATT TTGGTCTCCT AAAGATAAAT
150451 TAGTATATAG TGAAAAGGAA TTATAAAGTT CTGCTAGGAA TAAATGATA
150501 TGATTAACAC AAACATCCAC ATGGATGTGT CTCTGCCCTG TGCAGGAAAG
150551 ATGAACATTC AGTACAGATT CTGCTCTATG TCACTAGCTT TCAAGACCTG
150601 CAGGTTCTCT CCTAACGATG CAATTCCTGT GAGCAGTAGC AATAATAGCA
150651 GGTCAATTAA GTGGAGTGT TACTGTATGC TAAGAACTGT GGTAAACACT
150701 TTATATGGA TTATTTTATT TAAACCTCCT AATAGTCCAT TGAAATAGAT
150751 ATTGCCATGT TGAAAACGTGA GGTTCAGAGA GGTTAAGTGA CTTACCCAGT
150801 GTCACAGAAC TAGTAAGTGG TGCAGCTGGG ATTTGAACTG AGATTCCAGA
150851 ACAATTGCCA TTAACCACCT TGCTTCCATA TTGATATCAT CTGCAAATCT
150901 CTCTCCATAA ATTTCCCTAG TCTTTATCTG AGTTTCCCTA TTTCAGGAAG
150951 GAAAACCTCT GTTTTTGATC CTTATGAAAT ACAATTCCA TTAAAACCTT
151001 TTTTTTTGTC TATTAACAAA GGTACCGGAT AATTGAAACC AGACTGGATT

FIGURE 3EEE

151051 TGAGCCTGTG TTGATGGAAG TACACATGGG ATGTGGGCTG AAGTGTCAA
151101 TCTAATTTT CTTCCATCA GCTAATTTT AAAGTATTAA GCAAGTAGAT
151151 TCTGACACTA ACAGGGAAGA TTTAAATTCT CTTGAGAGAC TGGAGGTGTT
151201 AAATAATTT CTGGTAGTGC ACATTTACA TCTTAAATCT TCCTCACTCT
151251 CCCACCTCAT CTCATGTAC CTGAAGCTCT GGGATGTT TTTGTACTT
151301 CTCAGGAACA GCCAGACCTC TGGCTTCATC TCCTCTCCC TCCACATCCC
151351 TTCCTGCTC CAATTACTTC CCAGCGCCAC TTGGATGTTG TTGTCATCGG
151401 GGAACTTGG AAACAGCCAG ATTTTTGG AGTCTGTAAG CAGAAAACAG
151451 ACTGCTTGCT GCTCATATCT GGCAACCCAGC TTTGTCCAGA AAACGAGGAG
151501 TAAAAAAGAA GTCTGGGCTG TGAAGGGCTG TGACAACCTGT CCTAGGGGGA
151551 GCTCTAGCGA GCCCTGGCGG GCAGTGACTC ATGCTGCTCT GTCACTGGG
151601 TCAGCACTGG CCCCTGGCAG GCAGGGCGCA GCCAGGTGGG GTTCCAGCCA
151651 GAGCACGCAC GCACGGAGCC GGGAGCATGC AGCCTGACT GCAGGGGGATG
151701 TGATGCTCGG CTCTAACTCG CCTGGCTGGC CGGCCACGGA CGCCTCAGCT
151751 TGCAACCAGT GTAACGTTT TGGCGGGGAG CACCCCCGGG AGCCCACCGC
151801 GATGGGCAGC CTCCTGGTGA CTGATGGACG AGTGTCCACC TCCCAGACCG
151851 AGAGCGCTTA GTAGGTCGGA GGAAGTGGAG AGGATGTAAC ACGCCCCCAG
151901 CCGGGAGTGA AGCCCTGAGG AGGTAGGAGC CGCATATGTC CATCCGTGCA
151951 TTCCCACCGT CAGCGCGCAG GGGTGTGTA GATCACCGGT AGGAACCTTA
152001 TTTGGCTGGT GCTTCATTAT GCTGATTAAGA CTGAGTTAAGA TTTGATGGG
152051 ATGATTGCGC TGGGGAAAGAT GCATAATGAA CTAAAGGGGGGGGGGGGGGG
152101 TTAATAAGAT CTCGGAGTCG ACTTGTCGGG GTATGAATGA AGTAGACTGC
152151 AGTGGTATCC TAACAGGAGT TCCAGAACCT CACACATCCC TTTCCTGGT
152201 CCTTCCTCTT ATCCCGGTTA ATCCACGAAA TGAGTTTCTTCTTCTTCTTCTT
152251 TCAACGATTA GTGCTAATCA TTAATAATTG AGACCTGTCT GGAGGAGGG
152301 ATCCATAGGT TTAGGGTCTCC TAGCATCCTG GCACTAGCCA GCAGCTGCTC
152351 TGTAGGAGCC TTCTGGAAAC AGCAGGAAGG AGCGGCTTCC CCACGAGTT
152401 CCCAAGTGCT TTCGTTGGCC CAAGTGTCTT CGTTGGCCCA AGTGACCTGT
152451 TTGAGTTTGCT TCTTCAGTTT ACCCCAGGCG GGAAGGCAGC CTGTCTGCGG
152501 GTTGGTGGCC ATGTTGGCAG AGAAGGGGTT AATCTTTGT TGCTGTAGGA
152551 GCCGAGGTTG CGAGCTAGAT TGAAAGCAGG CGCTGCAGT CCATCGCCAG
152601 CGCCGAAGGA GTAAGACGAT CTTCTCCGCA ACAGTGTGA ATCCGGCTGA
152651 AATTTTTTT CCTCCCCGCC TCCTTTCTTG TTTTTCTTTA ACCAGCTCCT
152701 CCCCCCTTCG TTCCCACCCCT CAAGTCTGAC GATGACACCT CCAATTITGA
152751 TGAACCAGAG AAGAATTCTG GGGTTTCATC CTCTCCGTGC CAGCTGAGCC
152801 CCTCAGGCTT CTCGGGTGAA GAACTGCCGT TTGTGGGTT TTCGTACAGC
152851 AAGGCACTGG GGATTCTTGG TAGATCTGAG TAAGTAAAAA TTTGACTTT
152901 TAAAGGGGACC TGCATTGATG CAAGGCTTTT GGAGCCAAAG GTGGTGGTGG
152951 GGGGGTGGGG GAATAGGTGG GGGGAGTGCA GTGGAGGGAA GCTGCTAGTC
153001 ACCTGCATTG GGAAAGCAGT CTACCTGTTA GGGCTTTCGG GGGGTAGCCT
153051 GTTAATATTCT TCATTTGCA GTGTGTAAGG TACCTGTTCC TGTCTGTGGT
153101 ATGATAATTG TCAATTGGGT ACTTTGGTT AGTTTCCAA TCTTTGGTCT
153151 TCTTTAAAGG GGAGAGAGTG GGAGATTCC AGCAGTGCAG ATCCCCGGTC
153201 AAAGGAGAAA TGTGCAGGAG TTAAGATGAG CTGCCCCATCT ATCTAACCAT
153251 CTATGTATCT GTCTCTCAAG TGGGTGGATG GGGGTTGCTA TCTTGGCTGT
153301 ATAAAGAAC TCAAAAAACCT TGTCTCATAA GCTAGAGGTT TCCTGATGGG
153351 TTTAACTGAG CTGCAAGTGG CTGAACCCAGA GCTCTAACAG AGAGATGGTG
153401 CTCGGCTCCT CTCCAAGTAT GCTGCAAGAT CAGGGATCTG GCAGCTGAGC
153451 CTCTCTGAGC TGGTGGAGCG CTGGCAGCCA GAGAAAGCCC CGTTACTGTG
153501 AGCCACCAAG AGGGAGTGTG ATGTAGCCGA GTCATTGATT CACAGAAACT
153551 GGGCTTCATA GGGGGAAAAA AAACCAAGGAG ACTAGAAAAT GGAAATATAA
153601 ATATCACTGT AACACCTCTTG ATCTGGTAGG TCTTCTCCA TTCTCATAAA
153651 AGCTATTGAA AAATGCATTA ACAGAGCACT TGGAATTAGA GGGTCGAGGC

FIGURE 3FFF

153701 TTCCAGGAGC CTCCTGGAAT TTCTGTAAAA TGCACTAGCT TCTGTGGATG
153751 TGGGAGGTCA GTATCTTGCCT TCATTCTCTC ATGATACAAT GACATTCTGT
153801 TTTCAGAGGA GTGAGTTCCC CAGAAAGATCT TGGACTGATG GTGTTATTG
153851 CCAGGCCACCC TGGTCCCTGC ACTTTCAGGT TCTCAGAGGG TAATGTTGGG
153901 TTAGTTGCTG CCCACTTAGG AGACGAGCAG AATTTGATAT TCTTCTTGGC
153951 AGCATCTTC CCTCTTTGTG GTATTGTAG CTTAGATATC GATTTATAGG
154001 GATGTTATGT TGGTTCCTGG ATGGTGTCTC CCTATGGGTG CTATTTGAC
154051 AGTAACGTTT CTGAAAAGAT TTCAGAGTGT TGTGGGAAT TGGGCATTTG
154101 ATACGAAATA AGGTTGTGGG CTGTGATTGA ATGTGAGGGG GGTTTTTATG
154151 TTGCAAGATG TTGAAGTGGT CTTTCTTGAT CCCCTCTCTG GGGGCTGGGT
154201 TTCAAATTCA GGTTGGATTG TGGTAGTGT AGATGTGCCT CTCTGTCTGA
154251 TTGCTCCAC AACCCCAAAG CAATCTGGAT GGTGGTGGGA GAGGCAGAGT
154301 GCTAACTAGC TGTTGAATGT GCCATCAGAT GGGTTTAAA CGGCTCAGCA
154351 GGATTGGGAG GTTTTGCAT TGGCATCAA GAGCAGGGCA GAAGCGGAGG
154401 CCTGATGTTG AAGGATGCAT GGTTAGTGGG CAGTATAACC TTGACACACG
154451 CAGCACACTG AAGGTCACAC GTCGTAUTGG AAGGACGTGT GGAGAGTTCT
154501 AGTTCTGGTT AGCACTGGGC TGGCTGGTC AGAATGCAAG CTTGCTTGGG
154551 TGTTGGTCAG TGATCTGAAA GACGAGGGAG GATTGAGGG AGTTAGATT
154601 CAGGGGAAAAA GGCAGAATGA TATGGGAGAT CTTAGGCATT GCAATTAAAC
154651 TGAAGCAGTG TGTGATTAAT TGCTTATTT TCAGGAAGAC TTGAATGACA
154701 TCTTTCTGTT TCTCACAGAA AGCTCAGTTT AGGGAGCTCT CTGACAGGGG
154751 CATCTCAGTA TTAAGGCTGA GGCACTCGAT AAATATTG TGATTTAATT
154801 TACCTATGAT CCTTCTCCTCC AGAAGTGTGTT ATATTGCTTA TTGTATTTGA
154851 AGATGTGCTA TCTCACCTCT GGTAGTTAA ACTATATCCT TAGAGCACAA
154901 AACGAGCTGC TGTTCCCTGAC CCAACAGAAT GTTTAATAAG ATTCTTATT
154951 CAAAAAAGGT CCATGCAAAT AAAACTGTGT ATTTCTTATT TGGACGATGG
155001 CATCAGAGTA TTCTCTATCAT TGGGGAACTT TAACGTTTT TCAAAGCTTG
155051 GCAACGGGGT TGGAAATCAGA AAGATTCTC TTCACTTGC GTCTTGTAT
155101 GTGTTATTGC TATTGGACTT GGCTACTCTG CTGTAGGCAG CCCTGTGGGT
155151 GATACCTACA AGCATCATT TAGAAATTCA TCCACCTGTT GGATGTAGAT
155201 GACCCCTGGAC ATATCAGATT GTGATTAATT AGAAATCTAA TAAAAGAGAG
155251 GCAGTGATGA AATTACTTAG CAGCTCCTGC AGTTTATTG ACAAAATTAA
155301 CTTGGAGAGA GGGGGAGACA TTTTCTGGG GTACCACCTT TGCTGCCAGC
155351 GACCCCTGTGT TTCTCTCTGA GTTTCTTTT CTTTCTCAC CATTTCAGC
155401 ATCACAGGTT TTATTTACA CACATTGATT ACCTGTGCTG TTACTCATTC
155451 TTCACACCCAC TGAGGAAATT GCAGATGCTG CTGTAUTGTG CTAGGTAAT
155501 TGACCTCAGA TTTGTTACCA GTGAATTGAA TGAAATGTT AGAGGTGGAG
155551 CTGAATGAAC GAGGAGTTTT TGTGGAGAAA TTGGCAGTGA GAATGATT
155601 AATTCTGTGA TAGCTCCTCG TTTTTGGG TCCTTATTT GGGACCCAG
155651 ACTATTTTA AGCCATTGAG TGCACTATTA TTTTAGGCTG AGCAAGAAC
155701 TTGATGACAG CGTTTCAATG GCTGAGCGT AGTGGGAGTT CCTTGCAGCT
155751 TGAGTTGGTG GGAGCTGGAG AGTTTCTAGA GAACTAGGTT TGGTTGTCTT
155801 TGGGGTGGGG TTATGGTGA ATTAGTCTG GAGAGTGAGT AGCTGTCTGA
155851 TGCTTCTTT CTTTTTAAC CAGCAAGAGC CAAACACAA TCCCCAAGCT
155901 CTGAATGCCT GGCTGTTCT CTCAGCCTT CTTGCTTGA ACTTGACAAT
155951 AGTAGGGTAG TAACAGGAAA CAGCATGTTA AAGTTTTAA AATAAAATAG
156001 ATCTCAGCTC TTTTCTTCC CATTAGCAAG GGGTACATT ATTAGGTTT
156051 TCCCTTCTAG ATTGAGGCAC TGCTCATTT AAGTTCTTGG TGAAGCCATG
156101 CATTCTGCA AACCATAAAGT ATAAACTCTA GAACGGGGGT GTCCAATCTT
156151 TTGGCTTCT CTTGGCCACAT GGGAAAGAAGA AGAATTGTCT TGAGGCACAC
156201 ATAAAATACA CTAATGATAG CTGATGAGCT AAAAAAAA AAAAAGCTCAT
156251 AAAGTTTTAA GAAAGCTTAC AAACTTGAA GTTTGAGCC ACATTAAGAA
156301 CCATCCTGGG CTGCATGCAG CCCCCGGGGC CTTGGTTGG ACAAGCTTGC

FIGURE 3GGG

156351 TGTAGAAGGT AAAAACAGT TGGTTTATG TTTTTGTTT AAACATGCTG
156401 GTTGTATGCT TTTGGAAGAG TTGGGAAACA CTGAGGGTAA TGGGATCTTG
156451 ATGGGGCTGG AATTGTGGG AAGATGGGT TGATTCAAGG ATTTTCCTT TCCTTCGGG
156501 AAGGGGCACT CTCTTCCTT TGATTCAAGG CATTCAAACA CCATGGAGGA
156551 TGGTTCTGAA AACACAGCGA TGGATCCAGG AGTTTCTGG GAACCAGTTT
156601 AGGAAGAGTG GCTGTTGCCA TTGCTTCCCG TCTCTGCATG TCAGTTTCTT
156651 TTGGTGCCTC TTCTTGCTC TACTGGGCT TTCTTACAGG ACTTTGCGG
156701 CAACTGCGAA GTGGAAGGAC AGCGATACTT TTCTTACAGG CACATGGAAA
156751 GGATGGATGA AATACGTAAA ACACATTGGTC TAGTACCTGG TAATACACTA
156801 AGCCTTGGTA AATGTTCACT GTTGTATT TTGTTATTAC CACCAAGAGA ATATGGAAG
156851 GTCCATGTAT GTATAGTGTG CTCCTATACA GACACTTCAC GGTTCTGACC
156901 GACTCAGCAA TGATTAGGTA GTCCAAAGTC ATACCAGATT GGAAACCAAG
156951 CTTCCCAGGC CCTGGGACTT TTCTGCTAGA ATACCTGTT GTAAAAGGTG
157001 AACTACAAAG AGTTAATATG CAGTTGCCA AATTAGAAGG TCCAGTCCA
157051 GATGTTGGGG AGGAGTGGAT TGGGAACAG GTCAAAACAG GTTATGTTGA
157101 GAATGGGTAC CTTCCCATCA AGTTGAACAA TTGCTGCAGA ATATCATGGT
157151 ACAACTGAG AGAAAAGTAAA GCAAAACACCA GTAAGGAAA ATCCAGTGAG
157201 ACAAAATTGGA CATCTTGGG AGTTAGCGGA TTCTTGTAA ATTACATTGC
157251 GGACGCTTAA TGGGTAAATGC CAATTCAAA CCAAGTAGAC TGTGATCTCA
157301 TGATCTTCCCT TGGAAATGTCT GTCCATTCCC TTCTGGAGC AGTAAATACT
157351 AGGCAAGGCT GGGCTTATT CATCCTGGTT ATGGAAAGTA AAATATTGG
157401 TGTGCTGGGA CTGGGCTTAT AAGCATACTA GTGGATTGG ATCAGTGGAG AGGAAGGTAG
157451 GTTGGTTTTT TAAAAAGACA GTGGATTGG ATCAAACAC TTGCTCTAAAG
157501 AGGGAATTTC AGGTGGGCAG GGTGCTAACAG ACAGCCCACAT CTTACAGGGC
157551 ACCAACTGTG TTCTAGGCTG TGTTCCAACC ACTTTACACA GATGAATTCA
157601 TTTAAATTGC ACAACCAGCC CAAGAGGAAG GTACCATTAT TATTCTCATT
157651 TTGGATGTGA GGAAACTGAG GCGTGGGGAG ATCAAACAC TTGCTCTAAAG
157701 TTATGTAGCT TTGAGTGGCT TAGCTGAGAT TTGAACCTG TGGGTATAAA
157751 TGCCACAGAT GGGAAATTG TGTTGGGTAC CCCAGGGTTC ATGTGCTTGT
157801 TAGAAGTGGG AGCTATTG TGAGAACATCAC GAATGATGAG GTTGGGGCAG
157851 GGTGTGATGG GAGCTGACAG GCAGGGCTAA ATGCTGGGAT TCCATTTCA
157901 GTCTCTGTG TTATTGAGTA GGTAGACGGT ATAGCTCTG GATTTCAG
157951 ATTTTTCTT CTTTCTATT AGAGACTCTT ATCTGGTGTG TGTGTGCCG
158001 CACACATACA TAAACCCACG CGTATATACT CTTTCCCTGA ATGTTCTTAT
158051 TTGCTAAAGC TTAAGCTTGG CAAAGAGAGG AACTGCACT GACCTTACTC
158101 TCCACCATAT CTTCAGGCTG ATCATACACA AGTTGCTTAA TAAGCATTG
158151 GTTAATCCAT CTAATCATT CTTATGGCTG CAACTCTCAT TTTGTTGATG
158201 ACTCTACTAT CTATGTCTAT TCACATCTAC ATTTTGTACT TTTGTTTGC
158251 TCCCATCTGT CTTGGGATGG CTGATACCAG TGGAAAGACAG CCTGAACCT
158301 CCAATCAGTC CTGTTTCTT TTTATGAAAT ACTTGGAGGT TGGAGGATCT
158351 TCCCTAAAAA AGTGTGTTCC TTTCTACATC CAGCCAAAGG CTCTTGGTCC
158401 TTGTGCTTGC TACCTAGATC CCTATTGGAA AGAGTCTTGC CTGCAATTG
158451 ATTTTTAAA TAGCAGCAAT AACAGAGTCG TCTCTGCTAC ACGAAGACAT
158501 GCATCTGCTG TATTTCCCAG ACAAGTTCAA AAACCTTAAAC TAGCTTCTGC
158551 CCATGGTTAT TGCTCTCAAG TGCTTGTGT TGTTCCCATC CCCTCATTAT
158601 CTGGATTAGA TGTTTAACAT TTGCTTGTGT GTGTTGTGTT GGATTTCTC
158651 CTCTCCTCTT GCTCATTCAA TTTCTTCTT CTCTTAGCCA AGCACAGCTT
158701 GTTCTCCTAC TTGCTTCTTATT CTGTTCTCTA TTTAGACTGT GCGTGCCTGC
158751 CTTGCAGGCC TGGCAGGACC ATTCCACCGC CTTCTCATT GTCTTAAAGA
158801 TACCTTTAGG AAATCTAATC CAGACAATCC TAGCCCAGTC CTGAAGATTA
158851 GGCTCCAGAA GATTCTGTCA AGTGTGTTT TTGCTGGCCT ACACATGCTA
158901 ATTTGCATGG TTGCTTGGGA TCCCTTAAGA AGACAGTCAT TGACTAAATG
158951 GCGCTACATG TTCCCAAGCT CTGCGCCAGT CTGGCAACTC TTCCTTGTG

FIGURE 3HHH

Docket No.: CL001164DIV II
Serial No.: TO BE ASSIGNED
Inventors: Marion WEBSTER et al.
Title: ISOLATED HUMAN KINASE ...

FIGURE 3III

Docket No.: CL001164DIV II
Serial No.: TO BE ASSIGNED
Inventors: Marion WEBSTER et al.
Title: ISOLATED HUMAN KINASE ...

FIGURE 3JJJ

164301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
164351 NNNNNNNNNN NNNNNNNNNN NNNNNATTCA GAGTAAGTTT TTCTAGAAAA
164401 TAGAAGCTGG AAAAAAAAGG AAAACCCAAA CTTGGCTTCG TGCTCGAAGA
164451 GACAGCACTG CTGTGTGTGG GCAGGGTGGCT GCGTGCAACCC GCTGCTCAGA
164501 AGTGCCTTT CTCTCCATGG GGATAACTGG CTGTGTATCC GAGATGTGGC
164551 CAGGAGTAGG CAAGCAACGT GTGGGCAGGC TGCATGTTCT TTTATTAGCA
164601 TCTTCATTGT ACTGCATCTC GTCGAGCCC GAGCATGAAC TGGCCTGGGT
164651 TTCTAATATC TACCCCTGCTT CCCACCTAAT TACTCCCCCTG AACCCCTAAAG
164701 TGAGGGAGGG AGAGTTGCTC TTGTGGGGTG AGCTTTCCCT GGGGGTGGCTG
164751 TGAACCAACC TGGCATGTGG ATGTTCTTGG GTATCCAGAG CTGTCTGGAA
164801 CTCAGGCTTG GAGTCAGCTT CTTAGCACTG AATGCAGCCA GTCATGGATG
164851 GAGGGTCACTG TATTCACAT GTTCCGCTCT CCCTTCCCT CATGACCTTG
164901 CCCCTCTGAG CCTCTGTAGC ACTTTTCTG AGTGTGTCCA AGGCCATCTA
164951 GCTAAGAAGT AGCAGAAATG GGATTGAAG CCATGACTGT TTGGTGATAG
165001 AGCCTCAGCT TTGAACCTGGG GTTCTACTGC CTGGCACCCCC TGACCAAATC
165051 ATGGTAACGT GGTAGGAGAA CATAGAGGTA TAGGGCAAGC CCCTCCTTAA
165101 TGCCATGAAT AATACCCATC TTATAGGATT GTGGGGAGGA CTCAGTGAAG
165151 TAACCCGTGA AGCACTAAC ACGTGCCTGA CACGTGCTCA ATAAATGAGC
165201 ACTTGTCTG ATGACAAAGG TCGTGGCATT AATTCTCTCT CCTAGGTTGT
165251 TACTTCCTTG AGGACAGGAA TTGTGGCTTC CTTAATGGCC ACTGCAGCAG
165301 AGTTTCTCAA GTTGGCACTA TTGACATTTT GGGCTGGATA ATTCTTGTG
165351 TGGGAGCTGT CCTGTGGATT GTAGGATGTT GAGCAGCATC TTTGGCCTCT
165401 ACCCGCTACA TATTAATAGC ACCCCTAGTC ATGAAAATAA AATGTCTAGA
165451 CATTGCCAAA CTGCCCTGT TGAGAACCCAC TGGTCTGCAG GTATCTCTCA
165501 TGGGGATCAC AGGGCTTTA TATTCTCTTC TCTGTCTCTC TCTCTCCCTC
165551 TCTGGGTGTC TCTCTCTCTC ACACACACGC TTAGAGAAGG TGGTTAAAAA
165601 AAATTTGTT GAAGTTTGAG AATTTTGAGA ACAAAAGAAA AATTTGGAA
165651 GGCATTTAA TGAACAGATA GACTCTGTCC CATTCCATGG TCAACAGAAT
165701 TTCATAATTA GATAGTTGT TTACTGCAAC TCTGCACCCCC ATTGCCCATC
165751 ATTTTAGAGT TCCAACCACT TAGAGGATT TTCTTGAAA CTTTCTTAA
165801 AGCAGTGATA GTATCAGCTC TTTAAATAAT ACTATGTTG ATGAAGTGGT
165851 ACTTTTCGGG ATAATTTGAG ACCAGCCGAC TTGCTGTTG AAGAGGACAG
165901 GGCTATATTT GGTAAATAATA TATATGTGAT AATATGTATG TAATATTATT
165951 ATAATGTAAT ATACAATAAT ATTTGGTGA ACTGGTGAAT CTGAGGCCAG
166001 TCTTGATCG AACCTCTCAA GCTATGATT ACATTATGGT CAATGTTAGC
166051 ATAATGCAAT TATCAGCAAT CACTTGTCTGT TGCTTGAAA GTCAGAAGGA
166101 TGGCTAATAA AAATCTTACA AAAAGAAAAC AGGCCGGGTG CAGTGGCTCA
166151 CCCCTGTAAT CCCAGCACTT TGGGAGGCTG AGGCGGACAG ATCATGAGGT
166201 CAGGAGATCG AGACCACCT GGCCAACATG GTGAAACCCC ATCTGTACTA
166251 GAATACAAAA AAAAAAAAGA AATTGCTGG GCGTGGTGGC GTGCGCTGT
166301 AGTCCCAGCT ACTCGGGAGC TGAGTCAGGG GAATCGTTG AACCCGGGAG
166351 GTGGAGGTTG CAGTGAGCCG AGATTGTGCC ACTGCACTCC AGCCTGGTGA
166401 CAGAGTGAGA CTCCGTCTCA AACAAAACAA AACAAAACAA AAAACAAAAA
166451 AAGAAAATCT TAGAAAAAGA AAATAAATTG TAATATTCA GAATATTGTG
166501 TGGGGAGGAT ATGTGTGCTC AAGAAATATA TACTGAGAAC TTACCATTTGA
166551 TGCTAGAGAT TGAATTGCC CATGTCTACA TGAAAATGA ATAGAATATA
166601 AACATTTAA ATTGAGCCAT GTCTATCTGT ATTATATTTC TTTTATAGAA
166651 ATTCACTGGAA ATGGTATATT TTAACTGAAT TATTAACACT GGGGACAATA
166701 GGCTTTAAC TATTATCTAA ACCTGTACGT TGTTTGAAA TTCATAGGCC
166751 ACCACCATTAA ATTTCAAAAT TGGGTTCTTA CTCAAAGAGT GATGAAAAGG
166801 CACCAAGTACCA AAATGGTCTG GCCAAAATGC TACATGGAAC TAAATGCTGG
166851 GGATGGTCAT ACAATGAGTT TTAAGTGGCT AGACCCCTAA TCAGAAGCAC
166901 TTTCTTCTAA TTAGCACCCT GGTTCTTAAT CTTTCTGTA CATTACAATC

FIGURE 3KKK

| | | | | | |
|--------|-------------|-------------|------------|------------|-------------|
| 166951 | GCTCAGCAGC | TTAATACAAA | TGTTGCTTCC | CGGGGCCACA | CTCCACATCT |
| 167001 | TTCTGACTCT | CTGATTTAAT | TGGTCCGAAT | GGGGCCTATA | CATCAGGTGT |
| 167051 | TTTTTAAAAG | GTCTCCAAGT | GATTCTAATG | TGTACCTGCA | TTGAGGACCA |
| 167101 | GGGAAGGTGT | AGGAAGCCTG | ATAAACCTTA | CTCTCCAGCC | TCATCCTCCA |
| 167151 | ATCCCATGAT | TGTTTATGGG | ATTGTTGCTA | CACACCCAGC | TTAGTCATAG |
| 167201 | CATTCTTACT | CTAGCTTTT | TTTAGATGCA | ATTTTTATTT | ATTCTTAAAG |
| 167251 | AAAAAGATT | CTTTAGCACC | TTTATTCTAA | AGAGCTCTTA | ATTGCTGTGC |
| 167301 | TTAGAACTTC | TAAACAGTGA | GCATTGTCA | AACATAGAAT | AGCAGAATGA |
| 167351 | AGGGGTTGGA | CCTCGGGTGA | GGAGGGCTGT | CGCATGGTCT | CTTCGAGTG |
| 167401 | CCGGCGGGTG | GGGGCTGCAC | ATCTCCTCGC | TTCTGGGCC | ATTGATAAGT |
| 167451 | GACCTAAAAG | TGCCTTCTGT | TTTTTTGGT | GGGGGGTGAA | AAAGCAATCT |
| 167501 | TTTTTGTAACC | CACAGCGGTG | CACTTTAAC | AGGAAGCCCT | ACTGGGGCCA |
| 167551 | GCCTTCTATG | TGTCATTAAG | TTTTTCACGC | CACATCCTAC | CTATCATCAT |
| 167601 | GCACCCATGT | CATCGTTCTT | TTAAAGGGTG | CCAGTTTTT | GCTTAAGCAC |
| 167651 | AAGGAGCTGT | GACCTGTGTT | GTCATCCCTG | ATGCATGTCA | TGCAATGTGAC |
| 167701 | TTCATGACAT | GTGGGTGACT | TTTGATCTCT | GAAGGACCAG | GGACCCAGTC |
| 167751 | TGTGGATCAC | CACTCTCTCC | GTGGGTGGTT | TGGGTCTTGT | TCTCTAGCCC |
| 167801 | ACCCAGCCAG | GTGCAATTAG | GAATAAAGGA | AATAGCAAAG | GAATTTTGCT |
| 167851 | CAAGGCCATG | CCAAGCATT | CATCTCATAT | AAAAAGAAA | AGAGAGAGAG |
| 167901 | TGTGTGTGTG | TTGGCTAGAT | TTAGGTAGAA | AACAGGCTGG | TGAGAAGCGT |
| 167951 | AGAACTTGGT | AAAAAATTCT | AGCCAAAAGT | AAGATTTTA | AAAAGATTAA |
| 168001 | TTTCTGGATC | CAATCCCTGT | TGCCCATTT | TATGAATAAT | CACCATTG |
| 168051 | TTTAATGTGA | ATAATAGCAC | ACAGCAAATT | CAGCCCCCTG | AGTTTACCA |
| 168101 | TTTTAAGCAA | TTGCTTCTAGG | CCCGTGAGGC | ATGTACTATT | TATGAAGTTG |
| 168151 | CATGGGTAGT | AATGGAAAAC | ACAACAATGA | CAGTAGTAAC | AGGTGACATT |
| 168201 | TGTCGAACAC | TTGCAGTGTG | CCAGGCACTG | TGCTGAGAGC | ATTACATGCA |
| 168251 | TTATTCATT | TAATCCTTCC | AAGAACTCTT | TGAAGTAGGT | TGTAATTAT |
| 168301 | GGCCATTTA | CAATTGAGGA | AACTGAGGTT | CGGAGATGTC | AAATAACTAG |
| 168351 | TCAGTGGTGG | GGTCAGATTT | TTCTTTTTT | TTAAATTAA | TTGCTTTT |
| 168401 | TTTTTTTTT | TTTTTTTTG | AGACGGAGTC | TCACTCTGTT | GCCCAGGCTG |
| 168451 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 168501 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 168551 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 168601 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 168651 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 168701 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 168751 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 168801 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 168851 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 168901 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 168951 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 169001 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 169051 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 169101 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 169151 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 169201 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 169251 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 169301 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 169351 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 169401 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 169451 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 169501 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |
| 169551 | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN | NNNNNNNNNN |

FIGURE 3LLL

169601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
169651 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
169701 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
169751 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
169801 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
169851 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
169901 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
169951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
170001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
170051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
170101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
170151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
170201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
170251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
170301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
170351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
170401 NNNNNNNNNN NNNNNNNNNN NNNTGGCTTA AAACAACACA CATTATTAT
170451 TTTACAGTTC TGGAGGTCAAG AAGTCTAAGA TGATGCCAGG CTTGGTGGCT
170501 CAAGCCTGTA ATCCCAGCAC TTTGGGAGGC TGAGGTGGCA GGATCACTTG
170551 AGGTCAAGGAG TTCCAGACTA GCCTAGCAA CATGGTAAA CCCCATCTCT
170601 ACTAAAAATA CAAAAATTAG TCAGGCACGG TCACGAGCAC CTGTAATCCC
170651 AACTACTCAG GAGGCTGAGG CAGGAGAATT GCTTGAACCC AGGAGGTGGA
170701 GGTTGCAGTG AGCCGAGGTT GCAGTGAGCC GAGGTTGCAC CACTGCACTC
170751 CAGCCTGGGC AACAGAACGC GACCCTGTTT CCAAGAAAA AAAAGTCC
170801 GGGATGAGTT TTACTGGGCT GAGATCAGTG TAGACAAGGC TGCCCTCTCT
170851 CTGGAGGCTC TAGGGCAGAA TCTGTTTCCCT GTCTTTCC AGCTTCTAGA
170901 GGTTGCCTGC ATTCTTGGC TTGTGGCCCC TTCCCTCGTG TTCAAAGCCA
170951 TTGGTGTAAAC ATCTTCAGGT CTCTGTGACT CCGATCCTTG CTTCCATCTT
171001 ATAAGGATCC TTGTGATTT ATTGTACCCA TCCAGATATC CCAGGAGAAT
171051 CTTTCCATCC CAAGATCCAT AACTAAATC CCATCTGCAA AGTCCCTTTT
171101 GCCATGTGTG GTATATATT CACAGCTTGC AGAGATCAGG ACATGGGCAT
171151 CTTTGGAAA CGGGAAGGGG GCATTATTTG ACCTAACATC AAGAGCATGA
171201 GATGTTTTG TAAAATGAAA CAAATGTTGC AGCTTCTAA TGCAGCTTCT
171251 TAGGCCACC TGCAAGGCC CTTGACGTTG GTTTTCTCT ACCTAGGTCT
171301 GTTGTGTCGG GTCTGGACTC CCCTGCCAAG ACTAGCTCCA TGGAAAAGAA
171351 ACTTCTCATC AAAAGCAAAG AGCTACAAGA CTCTCAGGAC AAGTGTACA
171401 AGGTATTTAT TTCCGCAGCC GGCCTCCTTC CTTGCTCCAG GATCCTCCCG
171451 TCCGTATATG CCAAGGGATC CGCCCCGGGC CGCTGCTGGC TCTGAGCCGC
171501 CTGATCCGTA GAGAGTGAGG CGCTCCTGCC TTCGCTGAAG TCGCGCTCC
171551 AGCAGCTCAG AGGGAGATGA ATTGGGCCT TGCTGTTGCT GTAAATCCTT
171601 TAAATCTAAA CCAGAGGAGG CCCTGGATTT AAACAGTCCG TTTCTCAGCA
171651 TGACCCAGCC AGATGTCTGC TTCTTCCGGC AGGTGGCCTG GGTCTCACC
171701 TGTGGCTGAG ATACATCCCA TCTGTTGA GTGATGCGAA GTCTCTCTTC
171751 CTAGTCTTT AAAACTCCTG CTTATGTCAC TGCAGCCACT GTGTTGATTA
171801 CGCTCAACGT CTCTTAACAT TCACTGTTCC TGCCCAGAGG CAACGCTCTG
171851 GAAACTAATA AGTCACTGCT TGCCTGGAC TCCTAAGAGT GCAGACGAAT
171901 AAATATCTCC TTGCCCTGTC CTGGATTGTT CCTCTAGATC TTTGCAAGGA
171951 GATGGGGGGG GATCAAGATG GATTTGGAT AAAATTAAG TGACGTCCTGC
172001 AAAAACAAAA CAAAAACAAA AGCAAACAGG TGAAAAATGA TGATTGTGGC
172051 TTCCCTGCTA ACTGGGTTAG AGAAGTGTAC AAGTGTGAAC CGGGACTTGA
172101 ATGAGAGGAG TGACTTAGCA TTTGGTGAAT GTCCTTAACG AAGAACTGTG
172151 CGCTCCTGGG CGAAGAAACA ATGGTATTTCACT TAACTTTGG
172201 CGAATTAGCC TTAGCCCAGA CCACCAAGTG GTTTCGGAGG CTACTTGAGA

FIGURE 3MMM

172251 TGTGATTGCT CCTAATGAAC CTCCACGGGC CTTTTTAACC TGTCGATGTG
172301 TTTATTTCA G ATGGAGCAGG AAATGACCCG GTTACATCGG AGAGTGTCA G
172351 AGGTGGAGGC TGTGCTTAGT CAGAAGGAGG TGGAGCTGAA GGCCTCTGAG
172401 ACTCAGAGAT CCCTCCTGGA GCAGGACCTT GCTACCTACA TCACAGAAATG
172451 CAGTGTGAGC CTTCCCTGAA GCCCCCTTCC CTTGGAGGTG GCACCTTCCTG
172501 TTGTGTGTGT CTCATCCTGT TTCATGATGA CTCCATGAGG CACATCACAG
172551 CCAATGGCAG AGAGTAGAGA GAGGGAGAGC ACAAAAGCAA GATCTGTGTT
172601 TTGCAGAGTA GTGAGAGCCA GGCCTAAGGT CCCCAAGAAA TGAGATTGGA
172651 CTCATTTCCA GCAGAAAGTG CAGGTAGACG GCTGGTACCA TGGAGTCTGG
172701 AGATGGGAGT AATTCATCTT TGCCGCAAGT TGCAAAAGAT CTTAACATCT
172751 CCCATCCCAG CCTCTGTGGT CTGCGTTGTG TCTGACATGA GCAGCCTTGA
172801 GAACCAGACT CCCAACTATG TACAAGAAA CTTACTTCA ATCTTCCTGA
172851 CATCAAATT TCCATTGGCC AGAACCAAGTG TAGTGACAAG AAAATAGCCT
172901 TGAAAACCCA GACCCCTCTGT CATTATTAC CATGTGACTT TCATTTTTTC
172951 TTTCCTTCAC AAGAGTAGAC TGTCTTCTTC TCCATTGTCT TGTTAAATT
173001 TTCATTCAAG TGTTTTTAA TGTGCCAAT TAAACAGTCT CAAGAAGTTG
173051 AATCACACAT TTCTAAAGTT TTTTTCAAA GGGAGAGGAA ATCTATAGAA
173101 CGTGGCTGAT TAAGAATAAC TGCTATGTT CCATTCCAGA CTTGGCTGCC
173151 TTTCAGTGGT GGGTGAAGTT ATTCAAGCTAT GTATTTCAAGA TATAGATTT
173201 AGTGCCATGA AGCATAAGGG NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN
173251 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN
173301 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN
173351 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN
173401 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN
173451 NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN NNNNNNNNNNN
173501 NNNNNNNNNNN TGATTCTCCT GCCTCAGCCT CCCGAGTAGC TGGGACTACA
173551 GGCATGCACC ACCATGCCA GCTAACTTTT GTATTTTAG TAAAGACGGG
173601 GTTTCACCAT GTTGGCCAGG GTGGTCTCGA TCTCTTGACC TTGTGATCCG
173651 CCTGCCTCGG CCTCCCAAAG TGCTGGATT ACAGGTGTGA GCCACTGTGC
173701 CCAGCCATA AATCAAAATT TTTTCAGCAA TTGTTATACA AGTGGAACCT
173751 TACTCTCAA ATGCAATTGT CCAGTGTCTG GCTTAATGTC TGCTGTTGTC
173801 AGAAAACCATG TGAATGGAGT AGATCCCAG GTTATAAGGA GCCCCCAGGG
173851 AGGATGCGCG AGTCACTGGC TTCTCCAGGG GTCTCTGGTT TGGGGTTGCC
173901 TTGGTGCTGG GCACACTTCC TGGAGATTTT ACTGGACCAG CCTGAGGCCT
173951 TTGGGGCTCT GTCAGATGC TCTACTTCTG ACTTGTCTAG AGCTTTCTTC
174001 TAATTCTGGA CTAAAAGCAA GCAGGAGTTT GGAGGATGAT GGTGAGAATT
174051 CACATCCCCG AGTTGGCTTT TGGAATGCAG TAGTTGTGA GATTTAGTGT
174101 TTTTTTAAG AAGTATATT AGATCTTGCC TTTTCCCAG AAAGCATATG
174151 AGACAACCTC CAAGACATTG ATAGCATGGC TAATAAAATG GGAAATCAGG
174201 GCGAAGGACA GGAGAACTCA ATAAGGGTTA ACATGGCTAC AGCGATTGTC
174251 TAAATGGGTT CTTTTGCTG GCCAGAGCAG AAAGGATCAT GCAGTAAAGT
174301 GGGGGGGAAG AAAGGGAATT GAATGGTAGG TGAAGACTTC ATGTTGGTGC
174351 CAGGCACTGT GCCAGGCCCT CCTAGGACCT TGTCTTACTC AATCCTCAC
174401 CAGTGTGCA AGAGGATTAG TCTTATCCCT GTTTTAGAGA GGATGAAACT
174451 GAAAGGCAGC GAGGTGAAGT CACCAGCAGG AGGCTGAAGC CGC
(SEQ ID NO:3)

FEATURES:

Start: 2007
Exon: 2007-2102
Intron: 2103-8974
Exon: 8975-9117
Intron: 9118-15407

FIGURE 3NNN

Exon: 15408-15409
Intron: 15410-20480
Exon: 20481-20656
Intron: 20657-27907
Exon: 27908-28013
Intron: 28014-72738
Exon: 72739-72741
Intron: 72742-105286
Exon: 105287-105294
Intron: 105295-121265
Exon: 121266-121393
Intron: 121394-123900
Exon: 123901-123911
Intron: 123912-126394
Exon: 126395-126467
Intron: 126468-129602
Exon: 129603-129609
Intron: 129610-130289
Exon: 130290-130493
Intron: 130494-149974
Exon: 149975-150024
Intron: 150025-150920
Exon: 150921-151021
Intron: 151022-152695
Exon: 152696-152879
Intron: 152880-171296
Exon: 171297-171492
Stop: 171493

SNPs:

| DNA Position | Major | Minor | Domain | Protein Position | Major |
|--------------|-------|-------|--------|------------------|-------|
| Minor | | | | | |
| 10267 | - | T A | Intron | | |
| 11548 | C | T | Intron | | |
| 13169 | G | C | Intron | | |
| 16643 | T | C | Intron | | |
| 22293 | A | G | Intron | | |
| 24151 | T | C | Intron | | |
| 24523 | G | T | Intron | | |
| 25268 | G | A | Intron | | |
| 29374 | A | G | Intron | | |
| 29795 | G | A | Intron | | |
| 30861 | T | C | Intron | | |
| 32238 | G | - | Intron | | |
| 32242 | T | - | Intron | | |
| 37658 | A | G | Intron | | |
| 37749 | A | G | Intron | | |
| 39924 | C | T | Intron | | |
| 55645 | C | T | Intron | | |
| 57539 | A | C | Intron | | |

FIGURE 3000

| | | | |
|-------|---|-----|--------|
| 58604 | C | G A | Intron |
| 58861 | T | G | Intron |
| 59060 | G | A | Intron |
| 59518 | C | A | Intron |
| 59802 | T | C | Intron |
| 60083 | T | G | Intron |
| 60525 | T | C | Intron |
| 61078 | A | G | Intron |
| 63026 | T | C | Intron |
| 63231 | G | A | Intron |
| 65298 | C | T | Intron |
| 66172 | C | T C | Intron |
| 66244 | T | C | Intron |
| 66700 | G | A | Intron |
| 67029 | G | T | Intron |
| 67140 | A | G | Intron |
| 68038 | G | A | Intron |
| 69852 | G | A | Intron |
| 71083 | T | C | Intron |
| 71098 | G | A | Intron |
| 71445 | A | C | Intron |
| 71981 | C | A | Intron |
| 72366 | T | A | Intron |
| 73797 | T | - | Intron |
| 74416 | G | A | Intron |
| 74664 | G | C | Intron |
| 76330 | T | C | Intron |
| 78181 | A | G | Intron |
| 78685 | C | A | Intron |
| 79926 | G | A | Intron |
| 80198 | G | A | Intron |
| 80540 | T | C | Intron |
| 81810 | C | T | Intron |
| 82211 | G | A | Intron |
| 82304 | C | G | Intron |
| 82452 | A | G | Intron |
| 82539 | T | A | Intron |
| 83079 | A | G | Intron |
| 83350 | T | G | Intron |
| 83407 | A | G | Intron |
| 83434 | G | A | Intron |
| 83527 | A | G | Intron |
| 83699 | G | A | Intron |
| 83729 | A | G | Intron |
| 84000 | T | G | Intron |
| 84034 | C | T | Intron |
| 84213 | C | T T | Intron |
| 84803 | A | G | Intron |
| 85027 | G | A | Intron |
| 85275 | A | T | Intron |
| 87009 | T | C | Intron |
| 87888 | G | A | Intron |
| 88136 | G | A | Intron |

FIGURE 3PPP

| | | | |
|--------|---|-----|--------|
| 88231 | G | A | Intron |
| 88482 | A | G | Intron |
| 88608 | C | A | Intron |
| 88866 | T | C | Intron |
| 88870 | C | T | Intron |
| 88918 | G | A | Intron |
| 88940 | C | T | Intron |
| 89133 | A | G | Intron |
| 89260 | T | C | Intron |
| 89298 | G | T | Intron |
| 89682 | G | A | Intron |
| 89757 | C | TT | Intron |
| 89817 | C | T | Intron |
| 90248 | G | A | Intron |
| 90283 | G | C | Intron |
| 90506 | C | G | Intron |
| 90607 | C | T | Intron |
| 92329 | A | G | Intron |
| 92912 | C | A | Intron |
| 95043 | A | G | Intron |
| 95227 | T | C | Intron |
| 107428 | G | A | Intron |
| 114951 | A | G | Intron |
| 115042 | A | G | Intron |
| 117217 | C | T | Intron |
| 120452 | A | G | Intron |
| 124035 | G | A T | Intron |
| 124589 | C | T | Intron |
| 125136 | G | - | Intron |
| 125856 | G | T | Intron |
| 126256 | C | TT | Intron |
| 127332 | C | T | Intron |
| 128302 | G | A | Intron |
| 129122 | C | T | Intron |
| 129376 | T | C | Intron |
| 134893 | A | C | Intron |
| 136001 | C | G | Intron |
| 136249 | T | G | Intron |
| 136448 | G | A | Intron |
| 136906 | C | A | Intron |
| 137190 | T | C | Intron |
| 137471 | T | G | Intron |
| 137913 | T | C | Intron |
| 138466 | A | G | Intron |
| 146805 | G | A | Intron |
| 151008 | T | - | Exon |
| 151627 | G | A | Intron |
| 151875 | G | C | Intron |
| 153541 | T | C | Intron |
| 155392 | A | G | Intron |
| 155896 | C | A | Intron |
| 157137 | G | A | Intron |
| 157409 | G | A | Intron |

365 C

FIGURE 3QQQ

| | | | |
|--------|---|-----|----------------|
| 164675 | T | C | Intron |
| 165157 | G | A | Intron |
| 165405 | G | A | Intron |
| 165500 | G | A | Intron |
| 165751 | A | G | Intron |
| 165877 | C | A | Intron |
| 166135 | T | C | Intron |
| 166139 | C | T | Intron |
| 166187 | G | A | Intron |
| 166209 | C | T | Intron |
| 166402 | A | G | Intron |
| 166529 | T | C | Intron |
| 166567 | G | T | Intron |
| 166951 | G | A | Intron |
| 167026 | C | T | Intron |
| 167086 | C | T | Intron |
| 167517 | G | A | Intron |
| 167552 | G | C | Intron |
| 167775 | C | G | Intron |
| 167876 | C | T | Intron |
| 172530 | A | G | Beyond ORF(3') |
| 172714 | T | C | Beyond ORF(3') |
| 173811 | C | T | Beyond ORF(3') |
| 173812 | C | T G | Beyond ORF(3') |

Context:

DNA
Position

| | |
|-------|---|
| 10267 | TTGCCCTATTACCCAGGCTGGATTGCAGTGGTATATCATGGCTACTGCAGTTAACCT TCTAGGCTCAAGCAATCCTTCACCCCAGTGGCTGGGACTACAGGCTCACACTACCACGC CCAGCTAACTTTGCTTTCTGTAGAGATAAGGGCTTACTATGTTACCCAGGCTGG TTCAAACCTCAGGCTTGAAGCAGTCTCCTGCCTAGCCTCCAAAGCTTGATTAC AGGTGTAGGCCACCATGCCTGGCCCCATAAAATAATTGAAATTCTTTTGTTTTT [-, T, A] ATGGAGGAAGGGGCTGAGGAAGGCAAAGTACCTAGGGCCTATGAAGTCATATATTGGCC TTGCCCTCACCTGTTCTGACTTGTCTGACTTCATGTGATGAGGCAGTTGGCTGTTA GTGTCCTAGTTCTACTCTTACATTAGTGTGTTCAACCAAGTGGGTGATTGACGTTT CGGTTGTAGAGCTAGTTGGGGTGGTGTGTGAGTTGGGGGAAGGGCTACTGT CAGTTAATGGGTGAGGCCAGAGATGCCACAAACACCTTACAGTCACAAAGCAGCCCC [C, T] |
| 11548 | GATGCCTATTTGTAAAGAAGGTTTACTGGAACACAGCCCTACCCATGTGTTGTACAG TGCCTATGGCTGCTTCACATCATAACAGCATTATTCATTTATTTATTTTTTTTG AGACAAAGCTCACTCTGGCTGGAGTGCAGCAGCACAATCATAGCTACTGCAGCCTCCA ACTCTGGCTCAAGCAATCCTCTGTCTCAGCCTCCTAGTAGCTAGTACTACAGGCC ATGCCACCAACTAATGGCTAATTAAATTGTTAGAGATGGGACCTGTGAGATTGC [C, T] TAGGCTGGCTTGAACCTCTGGCCTCAAGAAATCTCCACCTTGGCTCCAAAATGCT TGGATTACAGGCATGAGCCACTGTGCCAGCCCACAACAGCATTGAGTAGTTGTGATAG AGACCAAATGGCCTACAAAGCCCCAAATAGTTCTGTTGGCCCTTCAAGGCTTG CTGACCTCTGAGCTACATGGCTCTCTAGCAGGACAGCCTCGACGGTAGCTCAGGTTCC AAAACACAAAAGTGGAGCTGCCAGGCTTCTAGGGTTATCCTAGGAGGGACATAGGA |
| 13169 | CTTACTGAGCCATCTGCAGGCACCTTCATTAGTCTTGAGACTGTCCTCTGGTTACTTAAC AGCAGTGAATTCTAGAATCATTAGTGTACAGAAGACTGGTTAGTGGAAATGTAGAT |

FIGURE 3RRR

| | | |
|-------|--|---|
| | | TTTTTCTAATAGACCCCTTCCAGGGAAATGTTCATATTTCAGAGGGTTCTGG GGAGTGTAAAGAGGCCATGATTGAAAATGGGTATTACATTAGTGTCTTCTATTCT CCCCCTTGAGTTCTGTTGGAATGTAAGCTTGTCTTCTACGTGGAGAAGGGTC [G, C] |
| | | TCAGCTGTTCTGCCAGGTTTGAAATCTTCTATAGGGATGGAGATTCTCTGGGG ACTGTTAGAGAAAATGGAATAGAGTGTAGCTCTGAAGGAGAAGGGATGTCAGCAGAAG TACCTCTAGCCTGGGCAAGGGAGGGAAAGGGAACGAGCATCTGGGAACCAGGG AGGGATTGTCCTTAATTACTCTACATCCCCAGTGCCTAAATAGTGTCTGGCA TATGTTAAGTCCTTAGTAATACTTGTGAATGAGTGTATGCTAGTGAACAAAATAAAT [T, C] |
| 16643 | | TTCTGATTATTTTGTTACAACAGTTCATCATTCACATCTTGATGCATCTT TGAGCACATGTGCAAGTATTCTGTGGACAATGGATGATTCTAGAAATTGAAAGTTGG ATTACTGTGTTCAAAAAGGAAGCAATACACCCAGCTATGGCTTCTGCTTGGGT CCAGATGATTATCTGACAAGTTCTGATTGCTTCTTCTTCTTCTTCTTCTTCTT TTTTTTGAGATGGAGTTCGCTTGTGCCCAGGTTGGAGTGAATGGCGCATCT [T, C] |
| | | GGCTCACTGCAACCTCTGCCTCCAGGTTCAAGCGATTCTCTGCCTCAGCCTCTAAGT AGCTGGCATTGCAGGCATGCCACGACACCTGGCTAATTGTTGATTTAGTAGAGA TGGGATTCTCCATATTGGTCAGGCTGGCTTGAACTCTGACCTCAGGTGATCCACCG CTTCAGCCTCCCAAAGTGTCTGGGATTACAGGCGTGAAGCCACAGTGCCTGGCCCTGTACT GCATTTACAGTGTGGGCTTACCTACAGTACCTCAATATTAGTGCCT [A, G] |
| 22293 | | TCAGAGTCTGCCCTGTGGACTTCAATGACTTTGTGTGGCTCCAATCAGAGAAGCAGG GAGGGCAGGAAGCTGCTTGTAGAATCTGAGAGTGTGGCTTGTGTTAGCAATAA AATGTGAGCACATAATAGAAGAAAAGTGACAGGACATGGCAGATAATTGGAAGAG GAGTGGAAAGATGCTACTCAGCCTCCAGCTCTGAGAAAGAAACTGTGTCTCATCAGTT ATACTACCTGAGCATCTGTTGATCTGGTGTGTTCTAGGTCTGGAGAAGAGGATTAC [A, G] |
| | | TGTAGCCCTGACCTTGTGATGTTATGTTTGATGGAAATAGTGCCTGAAAAAGAAA ATAATCCAACAGGCCACACGGCAGGAAACAATAGAGATATTCAAATAGGTATACCTTC TCCAGGTGAATGCCCTGAAATGACCGTGTGAAAGTGTGGCTGGGGCTTATAAAATTAT ACACATACAGGCCTAACTAAAGCCGCTTACCTTAAGAGGATGCTAGAAAAGA AAAGTAGGGCTTAACTGAGCCATTGGAATTAAAGGCATGAGAGAAGCCAGCACAAG [T, C] |
| 24151 | | TTGGGGCCGGGTGCACTGGCTCACGCCGTAACTCCAGCACTTGGAGGCCAGCAGGG CGGATCACTTGAGGTGGAGTTGAGACCGAGCCTGACCAACATGGAGAAACCTGTCTC TACTAAAATACAAAAAATTAGCCGGGTGTTGAGCTGCTTAATCCAGCTACTT GGGAGCTGAGGCAGGAGAATTGCTGAATCTGGGAGGCAGAGGTTGAGCTTAAAG CACGCCACTGCACTACAGCCTGGCAACAAGAGCGAACACTCCGCTCTAAAAAA [T, C] |
| | | AAATTATGTAGAGGTGGGACTTCCCTATGTTGCCGACTGGCTTGAACCTCTGGCTC AAAGTGTCTTCCATCTCCCCCTCCAAAGTGTGGGATTACAGGCATGCCACCCCTC CTGGCTGAGACTGCTTATTTTATTTTAAATTGTTGTTGAGACTGCTTATT TAATGGAAGCTCAGGGGTCAAGACGGGGTCAAGACAGAGTCATTGGTGA GTAGACTGTTCACTGAGCTTCAACCTTGTGACACCTTATGTGCCAGACAAAAGAAGGATC [G, T] |
| 24523 | | CCATCTCCCCCTCCAAAGTGTGGATTACAGGCATGAGCCACCCCTCTGGCTGAGAC TGCTTATTATTATTATTATTATTGTTGAGACTGCTTATTAAATGGAAGCT TCAGGGGTCAAGACGGGGTCAAGACAGAGTCATTGGTGAAGCAAGAACAGGTGAGACTGTT AGTCAGCCTCTGGACACCTTATGTGCCAGACAAAAGAAGGATCAGCATATTAGG TGCAGTAATTATTGGGTTATGTGGTGTCTCCAAATGTGTTAGATTACCTGGTA [G, T] |
| | | TGTTAAATCTCATGATTTAGGTAGTATATGGACAACCTATGTAACAACTTAAATAGT TAATATTAACAGCATATCAAAACCTGTGACTTTGCTCACGCCGTAACTCCAGCACTT GGGAGGCCAAGGGGGAGGATGGTTGGCCAGGAGTTGAGGCCAGCCTAGGTAAACAT GGTGAAGACCTGCTCTAAACAAAACAAAACAAACAAACAAACAAATAAACAAA TCCCTGTAACCTGTTCAACAATAACCTAAACAAATTTTTATTAAAATTAAATAAAA [G, A] |
| 25268 | | GGATTGATTACAGGTGCACTCCACCATGCCAGCTAATTGTTGATTTTAGTAGAGACG GGGTTCACCATGTTGGCTAGGCTAGTCTGAACTCTGACCTGCAGTAGTCCACGTGCC TTGGCCTCCAAAGTGTGGATTACAATCAGAAATTATAGAAAAGTGTGAAAGTACCAT GTAGTCAGGGTCTTAAGAGAAATGAAACAGTAGGAGAGATAGATATAATCATCTCTA GGATTAAAGTGTGACACATAAGACTAACCGTCACATACAGTATAACAAACTTTTCTT [G, A] |
| | | AACCAATTGATAGATAACACACACACTGATATACATAGAATATATACACACACAGAA |

FIGURE 3SSS

TGTATATACACATAGAATATATGTGCATACAGAATATACACAGAAATATATGTACA
 CATGCATAGAATATTTACATATATGCATATATAATTATTTAAGCAGTT
 GATTATACAGTTTGTGAGACAGAGTCTCACTCTGTCAACCCAG
 GCTAGAGTGCAGTGGCGAGATCTCAGTCAGTCACTGCAACCTGCCCGGGTCCAGTGAT
 29374 AAGAAATGTTAACATGGTACATAAGCTTCCCTTCTGACCCCTTAAGTGTCTGTAGG
 AGCATGGTGGGGATGTTCTTCTTCTTCTTCTTCTGAGACAGGTCTCACTTGC
 CACCCAGGCTGGAGTTCAGTGGCATGAACATGGCACTGCACTGCACTTCTGGGCT
 CCAGCAAACCTCCACCTCAGCTCCGGCATACACCACTGTGCCTGGTAATTGTT
 ATTTTAGTAGAGACGGGTTTGCATGTTGCCAGGCTGTTGAGTCTGAGCTC
 [A, G]
 AGAGATCTCTGCCTGGCTTCCAAGTGTGGGATTACAGGTGTAGGCCACATGCC
 CAGCTCCGGTGGGGATATTCTATATCCACATGTATAGTTACTTATAAAAATGGT
 ATGTTACTCTGTGCTGGCTCTCAGCTGCTGTTGCTTCCAGTGTATCCAGACA
 TCCTTCTCTGTCACTAACGCAAGTCTACTTTACTTTGAGCAGTGGCATATT
 CCCTGATGTATATCATAAGTTAGAGAATGCTAAATTCTGTTA
 29795 ATGTTACTCTGTGCTGGCTTCCAAGTGTGGGATTACAGGTGTACCCAGTGTATCCAGACA
 TCCCTTCTCTGTCACTAACGCAAGTCTACTTTACTTTGAGCAGTGGCATATT
 CCCTGATGTATATCATAAGTTAGAGAATGCTAAATTCTGTTA
 GGTTCTGAGGGATTAATTCTAAATTAAACAAGTGTATCCAGTGGAAACAATTGTT
 CTGATTCAAGCCCTAAAGAGGAGCTATCATGTTACCTGAATGGAGATAAACAGGCTCAC
 [G, A]
 TAAGAGAAAAGGGTAAGAGGGATGAACCTCCACCTTAAACTTCTACTGGCCGTT
 TTGGGAATTGCTGCTTATTCTGACCTAAATAAATAAGTTATGTGTTGGCTT
 CATATTGAGAACCCAGTGCCTGGAGAGAAGTTCTGCTGAGTGAACAGTGCCTCAGAACCAA
 TTCACATATGAATCTATTGGCAGACTGGCTTGAACACAGTGCCTCAGAACCAA
 TGCCACAGCTTAGGTTATGGCTGAAACACCTTCTTACATATTGCTTAGAAC
 30861 CACTGCGCCTTCTTCTGAGATGGAGTCTTCTGTCACTGGGCT
 GAGTACAGTCATCAATCTCAGCTACTGCAACTCCACCTCTGGGTTAAAGTGTCT
 CTGCTTAGCCTCTGTAGCTGGACTACAGGCGTGTGCACTGTGCCAGCTAATT
 TTTATTTTACTAGAGACGGGTTTGCATGTGGGTTAGGCTGTGAACTCTG
 ACCTCAGGTGATCCACCGTCTGGCTCCAAAGTGTGGGTTAGGCGTGAGCCAC
 [T, C]
 GTGCCAGCCTCAGGCTTCTTATAAGAAGAAGTTCGGGCCAGGTGTGGCTTACAC
 CTGTAATCCCAGCAATTGGGAGGCCAGGTGGCAGATCAGGAGGTCAAGGAGATCGAGA
 CCATCTGGCTAACATGGTAAACCTGCTCTACTAAATAAAATAAGGAGGT
 ATGGTGGCGGGTGCCTGTAGTCCCAGTACTGGGAGGTGAGGGAGGAGAACGGTGTGA
 ACCTGGGAGGCGGAGCTGAGTGAACCTGAGCTGCACTCCAGCCTGGGTGA
 32238 GGCTACTGCTCAGTAGCTTCAGGGAAACCACTGCTTGCTCCCTGTGGCAGTGAGGAT
 GATCAGAGGAGTCCCAGCAGGAATGCCAATGTAGTTCTTACATGTTGATGGAGTG
 CATTGTTCTGCTAAACAGTCTCAAATCACATCTCAGGAGGGTACTATCTGGGAC
 TTTGATAATTCTACTTTGATGTCACTGGCTTATTACCATCACCTAGTTGTCTAG
 TAGAAATAACTTCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
 [G, -]
 TTTGAGATGGAGTCTTGGCTGTTGCCAGGCTGTAGTGCAGTGGCGTGTCTCGGCTC
 ACTGCAACCTGCTCCGGGTTCTGCTCAGCTCCGAGTAGTGGGATTACAG
 GCGTGTGACACCAAGCCTGGCTCATTTGTATTCTCAGTAGAGATGGGTTTACCACT
 TTGGCCAGGCTGGCTTGAACCTGACCTGTGATCCGCCACCTGACCTCCAAAGT
 GCTGGGATTGCAAGGTGTGAGGCCACAGCCTGGCTTTTTTTTTGAGACAG
 32242 ACTGCTCAGTAGCTTCAGGGAAACCACTGCTTGCTCCCTGTGGCAGTGAGGATGATC
 AGAGGAGTCCCAGCAGGAATGCCAATGTAGTTCTTACATGTTGATGGAGTGCA
 GTTCTGCTAAACAGTCTCAAATCACATCTCAGGAGGGTACTATCTGGGACTTGT
 ATAATTCTCACTTTGATGTCACTGGCTTATTACCATCACCTAGTTGTCTAGTAGA
 AATAACTTCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
 [T, -]
 GAGATGGAGTCTTGGCTGTTGCCAGGCTGTAGTGCAGTGGCGTGTCTCGGCTCACTG
 CAACCTGCTCCGGGTTCTGCTCAGCTCCGAGTAGTGGGATTACAGGCGT
 GTGACACCACGCCCTGGCTCATTTGTATTCTCAGTAGAGATGGGTTTACCACTTGG
 CCAGGCTGGCTTGAACCTGACCTGTGATCCGCCACCTGACCTCCAAAGTGTG
 GGATTGCAAGGTGTGAGGCCACAGCCTGGCTTTTTTTGAGACAGAGTC

FIGURE 3TTT

37658 GACAGTGAGACATGTGCTTTGATCTCTCAGCTAAGATTATCTGATTTTCAGGCATG
TCTCAAAACTCACCAAGGCCCTGCTCACATGCTGCTGTTCTGAAGCCAGGGTTGGAAACC
AGCTGCCCATCAGAATGAGGCTGTGACTTAAAGATATTGGTTCTGTTTATTACCATTC
TTGTTGGTCTCTCCAGAGTCAGTGGCTTCAATTCTTATCGGTGAAATG
AGATATTAAATTCCCTTATTGACTTCATTCAATTGCTGAGTGTATTGTTGCCCTGGGA
[A, G]
GTTCTTGTGAGTTTCTGTGCCCTTGAATAGTTGTTTTTTATTCTGGTGTGAGG
CATGTTCAAGTGAAGTCAGTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACTT
TGTCCCAGCTGCTGGCCCCATCCCCAGAGTTCTGATTCACTGAGGTCTGGTGTGAAAGCT
CCAATAATTGCAATTCTTCTTCTTGTGAGACAGAGTCAGTGTGTCATCCAAGCT
GGAGTCAGTGGCACGATCGTAGCTATTGAGCCTCAAACCTCTGGCTCAAGCGTCC
37749 GCTGCTCTGAAGCCAGGGTTGGAAACCAGCTGCCCATCAGAATGAGGCTGTGACTTAG
AATATTGGTTCTGTTTATTACCATTCCTGTTGGTCTCTCCAGAGTCAGTCACTGCCCTT
TCCGCTCAATTCTTATCGTGAAATGAGATATTAAATTCTTATTGACTTCATTCAATT
AATTGCTGAGTGTATTGTTGCCCTGGGAAGTTCTTGAGTTCTGTGCTTGAATA
GTTGTTTTTTTATTCTGGTGTGAGGCACTGAGTGTGAGTCATTACACTTCT
[A, G]
CCATTAGGAGCCACAATTCAAGTTATGTTGCCAGCTTGCTGGCCCCATCCCCAGAG
TTCTGATTCACTGAGGTCTGGGCCCCAATAATTGCAATTCTTCTTCTTCT
AGACAGAGTCAGTGTGTCATCCAAGCTGGAGTGCAGTGGCACGATCGTAGCTATTGT
AGCCTCAAACCTCTGGCTCAAGCGTCTCCACCTCACCTCCTGAGTAGCTGGACT
ATAGGCATATACTACCATGCCCTGCCACCTTTTAATTGTAAGGATGGGGTCTCA
39924 GCTGGGCTAGCTGCCCTGAATCACCGCAGTAGCTCTTACTATAGATTCCGGTCC
CACCCATGGAATGTGATCCATGAAGTCTGGGGTTATCCCTGGAATCCTTAAGCTCCCT
AAGTGGGGGGATGGGAAAGAGATATGCTTATGTTACTATACCTTCTTATTATTATT
TTAAAATTCTGCCGGCGCAGTGGCTCACACCTGTAATCCAGCACATTGGGAGACCGA
GGCGGGGGATCACTTGAGGTCAAGGAGTCAGACTGGCTGGCAACATGATGAAATCC
[C, T]
GTCTCTACTAAAATACAAAATTAGCTGGCATGGTGGCGCATGACTGTAGTCCAGCC
ACTCCGGAGGCTGAGGCAGGAGAACGAGCTGGGGGGAGGAGGGTGCAGTGAGCC
GAGATCGTGGCACTGCACTCAGGCTGGTAACAGAGTGGAGACTCATCTAAAAAAAC
CCAAAAAAACAAAATTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
TTTCTGTTTATTCACTGCTGTTCCCTAACATCTAGAATAGTGGCTGGCACGATAGGC
55645 CCTTAGCTCACTCACTCATTCAATCATTCAATAACGAGTGCCTTATCATACAGGTACT
GTTAGGTAGCAGGTTACAGGGATGAGCAGAAGAAGCAGGCCCTCTGCCCTTCTTCTT
TTTCTCATCAACTGAAATCACAGCGCATTGTGTGTGAAAGTAGAGTCAGAGGGAAAC
ATGCAGAAAGGAGTTAGGATAGAAAAGGTAGCCAAGGAAAGCAGCAAGAACAGCATGA
TTTGTTCAGGGATCTTAAATAGCTCATCTTGTGGACAGCAAAGGGAGAGATGGGAA
[C, T]
GTGGCAAGATGAGATGAGAAGGGAGGCCGGGGTCAAGCCATGGAGGACGCTGAACCCCTA
CAAAGGAACATAAGCCTATTGATGTGAAACAGGCCACTTATTGGAAACAGCCTTGGTC
CAAAGGGAGAGGGCACGAAACTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
TATGAGAAATACTTCTTCACTTGTGAGCATGAGAAACGGAATCCCTACTAAGGAAATAA
TTCTCTTATTGGAAACAGCGGTTTGGAAATTCCAGATGACCCCAAAGTGGCA
57539 TAATCTCTGAATAAGCAGTTAATTCTTATTGATGAAACCTGCTGATCATGTCTAAG
AATGTATCTCCACTTAAGTAAGTCAGTGAATGGTATTACCTGAGTAGAGTTAAAGTAGT
CCCCCACCCCTCTATCTGTGGCACATATGTTCAAGTCTCCAGTGGATGTGTGAAACTG
ATGATAGTACTGAAACCCATCTACCTTTCTGTGCAACATACCTATGTTATATAAA
GCTTAACCTTAAATTAGGCATAATATATTGACTCCAGCTCCAGTGTAGTGGCTCTG
[A, C]
AGACTCACAAAATGTATTGCTTAAAAAATTCTTTTTTTTTGAGACGGAGTTT
GCTCTTGTGCCAGGCTGGAGTGCAGTGGTGCACCTCAGCTCACTGCAACCTCCGCCT
CTTGGGTTCAAGCGATTCTCTGCCCTAGCTCCCAAGTAGCTGGGATTATAGGCATGCA
CCACCCACACCGCTAATTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
TGATCTGAACCTCTGACCTCAGGTGATCTGCCCTGCCCTTCCAAAGTGTGGGAT
58604 TCTTTTATATTATTATTATTGAGACACAGTCTCCGTCGCCAGGCTGGA
GTGTGGTGGCACGATCTGGCTCACTGCAACCTCCGCCCTCTGGGTTCAAGTGTGATTCTTC
TGCCCTGCCCTGGAGTAGCTGGGACCAACAGGTGTCGCCACATGCCCGCTACTTTT
GTATTTCAGTAGAGACAGGGTTTACCATGTTGGTCAAGCTGATCTCAAGCTCTGACC

FIGURE 3UUU

TCAGGTGATCTGCCTACCTTAGCCTCCAAAGTGCCTGGGATTACAGACATGAGCCACCGC [C, G, A]
 CCCAGCCCCCAGTGTAACTCTTACATAACAGTGTCACTGTCTAAGTGTTGAAAAACTA
 TTTGTCAAAAATAATTGGTACATTATTGTAACTACACTTCAGACTTTTTGGATT
 TACCAATTCTCCCACTCATGCCCTTTCTGTTCAAGGAATCAATCCGTGGTACCATATT
 GCAGTTAGGGTGTATATTGATGGACTGGCCTAGTTAGATACTTAGTGTAGCTCA
 GCCAGCAGGTGGGATCTTCATGCCACCGAGGATTGGTATTGTGTTCTGGGGTTTT
 58861 CTTAGCCTCCAAAGTGCCTGGGATTACAGACATGAGCCACCGCACCCAGCCCCAGTGT
 AACTCTTACATAACAGTGTCACTGTCTAAGTGTTGAAAAACTATTTGTCAAAAATAATA
 TTGGTACATTATTGTAACTACACTTCAGACTTTGGATTACCAATTCTCCCACT
 CATGTCCCTTTCTGTTCAAGGAATCAATCCGTGGTACCATATTGCAAGTTAGGGTGT
 TATTGATGGACTGGCCTAGTTAGATACTTAGTGTAGCTCAGCCAGCAGGTGGGATC [T, G]
 TCATGCCACCGAGGATTGGTATTGTGTTCTGGTGGTTATGGCATTCCGACTAT
 GCAGAGAGGCATGGTATTAACCTCAGTGTCTCTAGCAAATTTCCTGTTTACCAAC
 CTCTGATCCCTGCATTATTGCAATCACTCAGAGATTGTGATTGAAAACATTGCTTGA
 CTCCATGCTTTAACGATTCTAACACTAGTAACTGTAACATAAAATTGCTTTATC
 TAGCACTGTTTCAAAACACATGTTAGTGATTTCATCAACCGAAATACCTCGAATC
 59060 AGGAATCAATCCGTGGTACCATATTGCAAGTAAAGGTGTTTATTTGATGGACTGGTCC
 TAGTTTAGATACTTAGTGTAGCTCAGCCAGCAGGTGGATCTTCATGCCACCGAGGATT
 GGTATTGTTCTCTGGTGGTTATGGCATTTCGACTATGCAGAGAGGCATGGTATT
 AACCTCAGTGTCTCTAGCAAATTTCCTGTTTCAACACCTCTGATCCCTGCATTAT
 TTGCAATCAACTCAGAGATTGTGATTGAAAACATTGCTTGAETCCATGCTTTAACGCT [G, A]
 TTTCTAACTAGGTAACTGAAACATAAAATTGCTTTATCTAGCACTGTTTTCATAAA
 CACATGTTAGTGAATTTCATCAACCGAAATACTTCAATTAAGTTCCAAGTTCA
 TGGATGCTGCTTAAATGCCCTGGTGGTCCAGGCTGTCGAATATTCTGCCCTGCAATA
 AGAGATTGCCCCTGTTAAAGCAACATTAGCCTTGTGCGGTTTACCCCCAATTCTC
 TTTTCTGTTGTAACCAATGAAAGGAAGTACTGCTTAAACACAGCAGGAATAATTCTC
 59518 GAATATTCTGCCCTGCAATAAGAGATTGCTCCCTGTTAAAGCAACATTAGCCTTTG
 TGCGGTTTACCCCCAATTCTCTTTCTGTTGAACCAATGAAAGGAAGTACTGCTT
 AACACAGCAGGAATAATCTCTAAACCTATTATCTCAAGAGGTGGCTGGCAGGATA
 TATAATGCAATTAAAGAAAGGCTTGGCAAATTATGAATGACAGAACTGGGAGTGGCT
 ACCGAGAGAAACTAGGATGCGCTTGTGTTGACACTGAGGTCAAGGCTAGCTTGAC [C, A]
 CTCCTGGGCTCTGCCCTGGGTTGCTGCAGGCAGCACCCATGAACCCAGGATCTGAC
 CCAGTTCCAGGAACTTATTCTCAGCAAGTCGAACACTCTGTGATGAGTGAUTGCCAT
 GCTCATGGGTACCAGGCTCTCATTATTCTGTTCACTTCCAGCCTCCACAAGATTGGT
 TTTTCAAGCTGTTATTATTATTATTCAAGGCTGTTTCAAGGTTCAAGTTCAAGTGGG
 GGGTTTCTAAGCGTACCAAGCTGCCCTGGTGTGAGTCCGGTATGTTCAAGTGTG
 59802 GGCGTAGCTTCTGACCCCTCTGGGCTCTGCCCTTGGGGTTGCTGCAGGCAGCACCCCA
 TGAAACCAGGCATCTGACCCAGTCCAGGAACTTATTCTCAGCAAGTCGAACACTCTG
 TGATGAGTGAUTGCCATGCTCATGGTCACTGGCTCTCATTATTCTGTTCACTTCCAG
 CCTCCCACAAGATTGGTTTCAGCTGTTATTATTATTATTCAAGGCTGCTTCAAGGCTGCT
 TTCAAGTTCAAGTGGGGTTCTAAGCGTACCAAGCTGCCCTGGTGTGCAAGTCCGG [T, C]
 GATGTTCAAGATGCTGGCCGGATTCTGGCTGATCTTCTGGGTTCAAGGCTGATCTTCTGGGTTCA
 GAAAGCTGAAAGCCAATCAGAGCTCTCTTCACTGGCTGGGATTATGCTTACCTTGCCT
 GGCATCGTGTACCTGCTCCCATGGAAAGTTCTGCTGTTACTGCTTCTATC
 AACATCTTTAAAGATATCTTCCCCGAGGCATCGTGTGATGTCACCGAACAGCACATTG
 TACGTTTATGCAAGACTGCCATATCTCAACAGTGAGAAATGCAATGGAAGTGGTGT
 60083 CCTGGTTGTCAGTCCGGTGTGATGTTCAAGTGCTGGCCGGATTCTGGCTGACCCAGC
 CTGATCTTCTGGGCTCAGGAAAGCTGAAGCCAATCAGAGCTCTCTTCACTGGCTTTG
 GGATTATGCTTACCTGCTGGCATCGTGTACCTGCTCCCATGGAAAGTTTGCT
 GTCTGGTACTGTCTTCAACATCTTAAAGATATCTTCCCCGAGGCATCGTGTGATGT
 CAACGGAACAGCACACTGTACGTTTATGCAAGACTGCCATATCTCAACAGTGAGAAA [T, G]
 GCATAATGGAAGTGGTGTGATCACGGATTATTCCTAGGACATTGGCTAATGCGCTAGAG
 AACTCGGATGGTGTGCGTGTGACATGGGTTTCTTGTGAGTTGCTTCTTCTTGC
 TATTCTGAAAGAAACAATTCTGCCACATGATCTGATTTTCAAGGTCTCAGCATT

FIGURE 3VVV

GTAGCAGAAAGTACACTTGTTCCATCCGGCAGTGACTCAGTGGTGGTCCCAGTCTGA
 TGAAACGCTGAGATAGTCCTTCTTCAAATAGGTATCGTTGATTGCTGTTATTG

60525 CTTGCCACATGATCCTGATTTTCAGGTCTCAGCATTTGTTAGCAGAAAGTACACTTG
 TTCCATCCGGCAGTGACTCAGTGGTGGTCCCAGTCTGATGAAACGCTGAGATAGTCCTC
 TTCAAATAGGTATCGTTGATTGCTGCTTATTGCTAGTGGCCCTCAATAGTGA
 CAATGAAACCTCAAGTGTATAATATGGTGCAGTAATCTGAGGGAGACAGTCTTG
 GTTGGGGGATAGGGATTCTGTGCCTACTTAGCTCAGGTGAAAGTCTAACAAATTG
 [T, C]
 GTGAGAATAAGCACCATGTACCTCCTGGGTTTTCTTTCTAGTCCTTAG
 TATGGTACAACAATTGTTAGGGAGTACCTATTCTGCTAACCCTAGGCATTCAAGT
 ATATTACACTATGCTCTTCAAACACTCTGCTCAAATGTAAGGATTATTACCCATT
 TACAGATGTGGTTACTGTGGTAACCTGGCCAAGGTCAAGGGCAAGTGAATAAGGGATT
 TGGATTGGTGGAGGTCTGTGATTCAAAGCCATGCTTTCTACAATACTATATA

61078 GAGGTCTGTGATTCCAAGCCATGCTTTCTACAATACTATATGCCCTTGATA
 AGTTATTGTTATTAGTAATAATTTGTGATGATGGCAAATAAAAACCATGTCACACTA
 GAGAGTGATTAATCTAGGTCTTTAAGAACATTGGAAATTGAGGAAATTGATTT
 TTTTTTTAAAGTGATGGCTTGCATCTTGGCCAGGCTGGTCTCAAATTGTTG
 GCTCAAGTGATCATCCCTCTGCCTCCAAAGTGTGATGGATTACAGATATGAGCCACC
 [A, G]
 TGCCAGCCTAGAATTGAGGAATTGAAATTGATGATTGATTCATTGATATTGAAATT
 TACAGTATGTTAAGTGCATGTCAGGTCTGGTGTGGCTCCATTGATGAACACATTT
 GGGTATGCCCTACCTCATTGAAATTAGGTCTAAGAGCCTAACCGGTCTTGCTGA
 ATAGAGCTGAGTCTGTAAATTGCTGACCTCAAATGGTGGGAAGTTAATGCTTCG
 TAGGCCTCCCTCACTAGTTACTGAACCACATGTGCTGATTGAGATGGGT

63026 TATTACCATGCCATTATTGAGTGCTAGTATGTGCCAGGAGCTTGCAAAAGTGTCTTAT
 GCTTATTATTGTCATTTATTCTCCCAAACCTCTGTGAGGGCAGGTCTATCACTAGT
 CCACAATACAATGAGGTCTGGAGCCGAAGTTGGCAGTGGTAGGAATCAAACCTCAGGT
 CTCCCTGACTCTAAATTCTTGCCTTGTGTTTTGAAAAAGTGGTATAGCCATAGC
 AGAAAATTACACATTACAGAAGGTTACGGCAGGGAAATGCCCTTCCCACCCACGC
 [T, C]
 CAACCCCTCTCCCTCAAGCGAACCACTATTGTCAGTTCTCATAGAACCTTCCAGAATAT
 TCTATGCTCTATAACACTAGCACAACCTATCTCTTAAACAACATCTTATGTCCTCC
 CAAGAATTAGTAATTGAGATGGAGTTGCTTAGTTGCCAGGCTGGTCAAGTGTCTC
 AGTGCAATGGCGTGTCTGGCTATTGCAACCTCTGCCCTCACGTTCAAGTGTCTC
 TTGCTCAGCCTCCGAGTAGCTGGATTACAGGCATGCCACTATGCTGGCTAATTI

63231 CTTTGTGTTTTGAAAAAGTGGTATAGCCCATAGCAGAAATTACATTACAGAAGGT
 TATACGGCGAAAATGCCCTTCCCACCCACGCTCAACCCCTCTCCCTCAAGCGAAC
 ACTATTGTCAGTTCTCATAGAACCTTCCAGAATATTCTATGCTCTATAACACTAGC
 AACCTATCCTTAAACAACATTTATGCTGCCCTCAAAGAATTAGTAATT
 TTTGAGATGGAGTTGCTCTAGTTGCCAGGCTGGAGTGAATGGCGTGTCTGGCTC
 [G, A]
 TTGCAACCTCTGCCCTCCACGTTCAAGTGATTCTTGCTCAGCCTCCCGAGTAGCTGG
 GATTACAGGCATGCCACTATGCTGGCTATTGTTGATTTGTTAGTAGAGATGGGTT
 CTCCATGTTGGTCAAGGCTGGCTTGAACCTCAAACCTCAGGTAAATGCCCAACCTCGGCC
 TCCCAAAGTGTGAGATTACAGGCGTGAAGCCACCGCACCTGGCAAATTAGTAATT
 ATTGGCAGTTATTGCCATATTGAAATGAATGAAGCAATTACTTATTCA

65298 GAGCCCTGAGGAATTTCACCACTGGTTCCATAATGAGACCCCTGTGACCTGGTGG
 GCCCCATCCCTCGGAAGTGTACCTGGCTTCCATAGGACTGCTTCTTCTGGCCTCT
 TAGTGCAAGCCAGCAGTGCAATGCCACATCAAAGTTGGTAAATCAATTCTAAGTGA
 AAATTAAATGCTTTGGGGAGATGGAAACAGAGTGGGTTGTTGGAGAGGCCATA
 AATTGGAGTCTTCAACCTTAAATTCTACCTGCGGAAACCTTCAACAACCAAGCAA
 [C, T]
 GTGGAAATGATTGGCAAAGATTCAAATTATTAACATCTGGACTATATTCA
 GCCAACTTTCTAATCAATTCTATGAGTGTGGTATTGCAAGTTGCTCATTCTGAGGG
 TGAAAGTTGGATAGAACTAAAAGGGCGGTTGGCAGGAATCAAAGAGATGAAAGCCTCA
 GGACAAAGAGTTAGAGGCCAGGTGGTCTAGACTGAGAGTTGGAAATGATTCTGGT
 TCTCACTTCAGAGAAAATAATAGCCAACCTGTTCATCCGTGGTGTGGAAACATTCA

66172 GTGTTGGTGGTGGTGAAGTGCCTGCTATGCCTGTGCCTAGGCAGTAAAGGGGAAGTT
 AGTTGGCCCTACTTCAGACATGTAATTCTACCTCTAGTAAACATGCCAAATA

FIGURE 3WWW

AATGTCTGTTTCATGAGCCAGATAACCTCCTCTTATTGGAGGAGTGAGTAGAA
 GGGTGAGACTAGCCGGGTGCATGTCCTCAACCTGGCGAAAGAGCAAGACTCCATCTA
 AAAAAAAAAAAAAAAATTAGAATAATCTTTACTGTTGGAGAAAAGTTTGAGAGGC
 [C, T]
 GAGGTGAGAGGATCACTTGAGGCCAGGAGTTGAGACTAGCCTGGCAACATAGCAAGAC
 CCCTGTCTCTATCAAAAAATAATAAATAAAAAAAGCTAGCTGGGTATGGTGTGACCT
 GTAATCCCAGCTACTTGGGAGGCTGAGGTGGGAGGATTGCTTGAGGCCAGGAGTTCAAGC
 TTATAGTGAACATATGATTGCACCCCTGACTCCCTCTGGCATCAGAGTGAGACACTGT
 CTCTAAAAAAAAAGTTGGAGAAAAGGATACTAAAGAGATAAAAGGGTACTAAAGAGAT
 66244 ACCTTCAAGACATAGTAATTCTACCTTCTAGTAAAACATGGCAAATAAATGTCGTTT
 TCATGAGCCAGATAACCTCCTCTTATTGGAGGAGTGAGTAGAAGGGTGAGACTAG
 CCGGGTGCATGTCCTCAACCTGGCGAAAGAGCAAGACTCCATCTCAAAAAAAAAAAA
 AAAATTAGAATAAACTTTACTGTTGGAGAAAAGTTGAGAGGCCAGGAGTGAGAGG
 ATCACTTGAGGCCAGGAGTTGAGACTAGCCTGGCAACATAGCAAGACCCCTGCTCTA
 [T, C]
 CAAAAAATAATAAATAAAAAAAGCTAGCTGGGTATGGTGTGACCTGTAATCCCAGCT
 ACTTGGGAGGCTGAGGTGGGAGGATTGCTTGAGGCCAGGAGTTCAAGCTTATAGTGAAC
 ATGATTGCAACCCCTGCACTCCCTCTGGCATCAGAGTGAGACACTGTCCTAAAAAAAA
 AAAGTTGGAGAAAAGGATACTAAAGAGATAAAAGGGTACTAAAGAGATCGGGAGGCAGC
 AAAGAATGAATCTAGTCTGATGTTATTGGGTGACGTAATTGTCATGGCGGAAGGTGCTG
 66700 AGTGAGACACTGTCCTAAAAAAAAAGTTGGAGAAAAGGATACTAAAGAGATAAAAGG
 GTACTAAAGAGATCGGGAGGCAGCAAAGAATGAATCTAGTCTGATGTTATTGGGTG
 ACCTAATTGCGGAGGCTGCTGAAAGGGAGGTTGCTGGCCTACAGCAAGCAGGT
 GCTGATGAACTAGCTCTTGTATTACTAAATGTCCTGGTGGGCCAGATGTTG
 GCTCACACCTGTAATCCCAGCACTTGGGAGGCCAGGCGACGGATCACTTGAGGTGAG
 [G, A]
 AGTTGAGACCAGCCTGGCAACATGGTAAAACCCCGTCTCTACTAAAAATACAAAAAAA
 GTATCCAGGCATGGTGGCAGGTGCTGTAATCCCAGCTACTTGGGAGGCTGAAGCATGAG
 AAATCCTTGAACCCGGGAGGTTGAGGTTGCAAGTGGCAGACTGCCACTGCACTTCC
 AACCTGGGAAAGAGCAAGACTGAGTTCTCAAAAAAAAAAAAAAAATTCTGGGG
 AAATATCCCCAGGGTGAAAAATTGGGTATATCCAATTGAGCTTGCAGGAAAGAAATGCACT
 67029 AAAACCCCGTCTCTACTAAAAATACAAAAAAGTATCCAGGCATGGTGGCAGGTGCTTGT
 AATCCCAGCTACTTGGGAGGCTGAAGCATGAGAATTCTTGAACCCGGGAGGTTGAGGTT
 GCAGTGAGCCGAGATCATGCCACTGCACTTCCAACCTGGCAAAGAGCAAGACTGAGTT
 CTCAAAAAAAAAAAAAAAATTCTGGGAATATCCACCAAGGGTGAAAAATTGGGT
 TATCCAATTGCAAGAAATGCACTCATGACTAGTTGCAATTGAAACGTTCC
 [G, T]
 CTTCTGAGTATTCAGCCTATGTTGAGGTGTTCACAGATTGCTGAGTACCTAGACTGAGA
 GGGAGAGAAAAAAACAAAGTAAAGCTAAATGTTAAGAAGTCTGGTAAAGTCAATCCA
 GAAGTGAGGGAAAGCATCTAAAAGTATGAATCTTGGGAAACATAACTGATTACCA
 AAAACTTAATATTAAGCAGCCTCATAGGAACATGGTTGGGTATGGCAGAGGCCAGCT
 AGAGTCACATCTCCATTGAAATCCACCAAGAGGGTTATCTGCCTAGTTGGCAG
 67140 GTGGAGGTTGCACTGAGCCGAGATCATGCCACTGCACTTCAACCTGGCAAAGAGCAA
 GACTGAGTTCTAAAAAAAAAAATTCTGGGAATATCCACCAAGGGTGA
 AATTGGGTATATCCAATTGCAAGAAATGCACTCATGACTAGTTGCAATTG
 AAACGTTCTCTCTGAGTATTCAGCCTATGTTGAGGTGTTCACAGATTGCTGAGTAC
 TAGACTGAGAGGGAGAGAAAAAACAAAGTAAAGCTAAATGTTAAGAAGTCTGGTAA
 [A, G]
 TGCAATCCAGAAGTGGGAAAGCATCTAAAGTATGAATCTTGGGAAACATAACT
 TGATTACCAAAACTTAAATTAAAGCAGCCTCATAGGAACATGGCTTGGGTATGGCGA
 GAGCCAGCTAGAGCTCACATCTCATTGAAATCCACCAAGAGGGTTATCTGCCTAGT
 TGTTGGCAGCCAGACCCCTGGCATTGTTAGATTGATGGAAGGCTACTTGGGAATG
 CTGGCTTCTTATTGACTTAAAGACAGCATTGAAATTGATCACCAGCCAAA
 68038 GCCCAGGCTGGTCTGAACTCCTAGACTGAAGTGATCCACCTGCTTGGCCTCTAA
 GCTGGGATTACAAGTGTAGCCACCAGGCCGGTCTTGAACCTCGTATATACAGTGTGTT
 GTGTGGGCAAGTCATGCCGACCACTTCTAGTGGGAGGGAGAAACTAGAGGGCTTGCC
 TGAGGCTTGGCAATGTAATCTGTTCTTGGGATCAATTACTTATGCATATTAGTAG
 CCAGCTTATTGCTGATCACCTAATCTGTTCTTCTGTTCACTTGGGA
 [G, A]
 TGGGATATCTCCTCTTCCATTGAGCCCTTCTCAGAGTTGTTCCATGATAA

FIGURE 3XX

| | |
|-------|---|
| | GAACCTCCATCAAATCTGCTAACATCAGTTGTCAGATTTGCCACTTTTTTT TTTTTTTTCTGAGATGATGAACTCACTCTGCTGCCAGGCTGGAGGCAGTGCCACCA TCTCGGCTCATGCCAACCTCTGCTCCGGTTGAGGGATTCTCCTGCCCTCAGCCTCCC GAGTAGCTGAGATTACAGGAGACCCCCACACTCCAGGCTAATTTGTATTTTTAG |
| 69852 | GGCTTTCTAAAGTAGCACTTTCCCCACTCCAGCCCAGTAAGATACTTTAACAGCT CTTGAGATTAATCCCCCTCGTGACACTTCTGCAGGAACCTGAA [G, A] AAAGTACTGCATTCCCCACTGGCAAAACTTGCATCAGCCAGTTATGTATTCTGCTT TTCACACCATATCTGACCTCTGAACAACACACATATTCTCCTCTT |
| 71083 | CTTTGTTCTGAAAGCCTTGATTCCTGCTATCTATTTATAACTGAAACAAAAACAAAAAC AAAAACAAAAACAAACCTCAAGAAGTTACTTGATAGCCTCTGCCACTAAGGAGACTGTG TTCTGATGTTACCTCAACACAGGCTGATTATTAAAATATTAAAATATATGAAATA TTTTTTCTATTTTTTTAGTGGCTTTCCAGTGAACAATAGGTCTTACTATATGAA TTTCTTATTGTCTTACTGTGAATGTGGTGGGTATGTGGCAGCTGGGGAGCTGATGATT [T, C] ATAATACTGTATCAGAAATGATTAGTAGGTACTTATTAAACATATTCTCAGACAGAAC AATCTTGACTTTAAACCTCTTCAATTAAACACATCAAGTACCCCTGTTGTGGCCT GTGTTATGTTAGGTGCTCTTACAAGACCTTTCTGCTATTAAATTATATGAA CTTAGCAAATATTACTCTGCACCTACTAGGTACCTGGCACTGTGCTGTACTGAGGTG CCATGTGACCTCCATCAACATAGACTCAAGATCAATATGATTTCAGTGA ACTAAAAATA [G, A] |
| 71098 | CCTTGATTCTGCTATCTATTTATAACTGAAACAAAAACAAAAACAAAAACAAAAACAA CCTCAAGAAGTTACTTGATAGCCTCTGCCACTAAGGAGACTGTGTTCTGATGTTACCTC AAACAGGCTGATTATTAAAATATTAAAATATATGAAATATTTTCTATTTT TTTTTAGTGGCTTTCCAGTGAACAATAGGTCTTACTATATGATTCTTATTGTCT TAGTGAATGTGGTGGGTATGTGGCAGCTGGGGAGCTGATGATTATAAAACTGTATCA AAATGATTAGTAGTAGGTACTTATTAAACATATTCTCAGACAGAACATCTGACTTTAA AACCTCTTCAATTAAACACATCAAGTACCCCTGTTGTGGCCTGTGTTATGTTAGGTG CTCTTTACAAGACCTATTCTGCTATTAAATTATATTGCTTAGCAAATATT CTCTGCACCTACTAGGTACCTGGCACTGTGCTGTACTGAGGTGCCATGTGACCTCCA TCAACATAGACTCAAGATCAATATGATTTCAGTGA ACTAAAAACCTTTATTGAAGCAA [G, A] |
| 71445 | ATCTTGACTTTAAACCTCTTCAATTAAACATCAAGTACCCCTGTTGTGGCCTG TGTGTTATGTTAGGTGCTCTTACAAGACCTATTCTGCTATTAAATTATATATTGCT TTAGCAAATATTACTCTGCACCTACTAGGTACCTGGCACTGTGCTGTACTGAGGTGC CATGTGACCTCCATCAACATAGACTCAAGATCAATATGATTTCAGTGA ACTAAAAATAC CTTTATTGAAGCAAAAAAAACATATTGTAAGGATCAAAAGAGACATTATATA [A, C] GGTACAAGAAATAGAAGAATTATATCCCAAGATATATGTGATAACACATACCTGTTAGTT TTGGACGTGACCAGATTTCACACAATCCTTAAAAATGCAAGCAACCAAGATTAAAGTAG TTCTCTAACTCTCTTCTGTGCCCCATTAGATGTATTTGGATCTTCTATTCTGTCTT TGTCTTTGACCTCTCATGTTTCCGTCTTTGTCTGTGTTGCTTACAACAAA TGCTTCTGAACTGTGGTGTGCACATGAATCACCTGGGGACCTTGTACAACGTAGGTT [A, C] |
| 71981 | ACAAATGCTTCTGAACTGTGGTGTGCACATGAATCACCTGGGGACCTTGTACAACGTA GGTTCTGATTCCATGGGTATGGGCAGGGCCTGAGATTCTTAGAGAAATTAAATTCTAAC AGCTCCTGAGTGGTGGTATAATGCCAGTGTGAGACCATAGCTTAAGTATCAAGGTTCT ATGTGATTCCCTCAGACTAACTGCTAGTTCACTAAGTTCTCAGCTGTATCTAGTC TGCTATTAAACATATTCAAGTGAATTAACTTAACTTAAATTCAAGAACAGACTTTTATT [C, A] TGGAAAGTTCAAGTTGGTCTTCAAATGTACCTGGTTCTTTCAAAGTGT CATGTTCT TTGATAAGAATTCTACTAATTACCTTGATAATAAAAATTGTTCATGGCTCATTTA GATTGTTCTTTATCTGAGTTGGAGGGTAATTCTCCATTGTATCTGTT TGCACCCGTAAGGTGAGTTGGTATTAACTTTAATTGTGAATTATTCTGGTAG GGATTGGAAGGAGGTTGGGGGTGGGGTGGGGAGAAAATCCTGTGTCCTGG [A, C] |
| 72366 | CCTTGATAATAAAAATTGTTCATGGCTCATTAGTTAGTTGTTCTTTATCTGAGTT TGGAGGGCTAATTCTCCATTCTGATCTGTTGACCCGTAAGGTGAGTTGG ATTTTTACTTTTAATTGTGAATTATTCTGGTAGGGATTGGAAGGAGGGTTGGGG GGGGGTGGGGTGGGGAGAAAATCCTGTGTCCTGGTTGCAAAAACACCCCTACAAGTT GTTCTCCACTGACATGCCAGTGCTCCAAGGGCTAGTGATCTGGACCA GAGTAGTCATG |

FIGURE 3YYY

| | |
|-------|---|
| | [T, A] TAATTTCTTGAATTGTAACAGGAACTGTAAATGTGGACACTCTACCTGAGGTTACTGCT TCTTTCTATCTGTTTATTCCTTCCACTGAAGGGCCCTGGACAAGGGTAAACATCTCA TCACTTTCTGGGTGGCAGAATATTCCAGTCCCCACTCTTTGGCTTAAGGCTGTG GCTTTCTCTGCCTGAATGTGCCCTAAGAAGCCCCTTTCAAACCTTCTGTGT ACTTGACCGACTAGCTAGCTAGAGGTTATATCCCTAGCTTTAATCTTGCTGTGAATA |
| 73797 | GGATTATTTATTAACCTCTAACAGGAACTGTAAATGCCATGTTGAAAAC TGAGGTTCAAGAGGTTAAGTGACTTACCCAGTGTACAGAACTAGTAAGTGGTCAGCT GGGATTTGAACTGAGATTCCAGAACAAATTGCATTAACCACCTTGCTTCATATTAGTAT CATCTGAAATCTCTCCATAAATTCCCTAGTCTTATCTGAGTTCCCTATTTCAGG AAGGAAAACCTCTGTGTTTGTACCTTATGAAATACAATTCCATTAAAACCTTTTTTT [T, -] GCTATTAAAAAAGGTACCGGATAATTGAAACCAACTGGATTGAGCCTGTGATGGA AGTACACATGGGATGTTGGCTGAAGTGTCAATCTAATTTCATCAGCTAATT TTAAAGTATTAAGCAAGTAGATTCTGACACTAACAGGGAGATTAAATTCTGAGAG ACTGGAGGTGTTAATAATTCTGAGTGCACATTACATCTAAATCTCCTCACT CTCCCACCTCATCTAACATGTACCTGAAGCTGGGATGTTCTTGTACTTCAGGAA |
| 74416 | CATCTCCTCTCCCTCACATCCCCCTCTGCTCCAATTACTTCCCAGGCCACTGGAT GTTGTGTCATCGGGGAACTTGAAACAGCCAGATTGGAGTCTGTAAGCAGAAA ACAGACTGTTGCTGCTCATATCTGGCACCCAGCTTGCTCCAGAAAACGAGGAGTTAAA AGAAGTCTGGGCTGTGAAGGGCTGTGACAACGTGCTCTAGGGGAGCTAGCGAGCCCTG GCAGGCAGTGAECTATGCTGCTGTCACTGGGATCAGCACTGGCCCTGGCAGGCAGG [G, A] GCAGCCAGGTGGGTTCCAGCCAGAGCACGCACGCACGGAGCCGGAGCATGCAGCCTG ACTGCGGGGATGTGATGCTCGCTAATCGCTGGCTGGCCACGGACGCCCTCA GCTTGCACCATGGTAACGTTCTGGCGGGGACACCCCGGGAGGCCACCGCGATGGG AGCCTCTGGTACTGATGGACGAGTGTCCACCTCCAGACCGAGAGCGCTTAGTAGGTC GGAGGAAGTGGAGAGGATGTAACAGCCCCCAGCCGGAGTGAAGCCCTGAGGAGGTAGG |
| 74664 | TGACTCATGCTCTGCACTGGGATCAGCACTGGCCCTGGCAGGCAGGCCAGCCA GGTGGGGTTCAGCCAGACGACGCACGACGGAGCCGGAGCATGCAGCCTGCACTGCG GGGATGTGATGCTCGCTAATCGCTGGCTGGCCACGGACGCCCTCAGCTTGCA ACCATGGTAACGTTCTGGCGGGGACACCCCGGGAGGCCACCGCGATGGCAGCCTC TGGTACTGATGGACGAGTGTCCACCTCCAGACCGAGAGCGCTTAGTAGGTCGGAGGAA [G, C] TGGAGAGGATGTAACAGCCCCCAGCCGGAGTGAAGCCCTGAGGAGGTAGGAGCCGAT ATGTCATCGTGCATCCCACCGTCAGCGCAGGGGTTGCTGTAGATCACCGGTAGGAA CTTTATTTGGCTGGCTTCATTATGCTGATTAACGTCAGTGGATTGATGGCATGAT TGCGCTGGGAAGATGCAATAATGAACTAAAAAAAAAGTGGTTAATAAGATCTCG AGTCGACTTGTCCGGGTATGAATGAAGTAGACTGCACTGGTATCTAACAGGAGTTCA |
| 76330 | ATCTAACCATCTATGTTCTGCAAGTGGGATGGGTTGCTATCTGGCTGT ATAAAGAATCTAAAAACCTTGTCTCATAGGCTTCTGATGGGTTAACTGAG CTGCAAGTGGCTGAACAGAGCTAACAGAGAGATGGTGTCTGGCTCTCCAAGTAT GCTGCAAGATCAGGGATCTGGCAGCTGAGCTCTGAGCTGGTGGAGCGCTGGCAGCCA GAGAAAGCCCCGTTACTGTGAGCCACCAGGAGGGAGTGTGATGTAGCCAGTCATTGATT [T, C] ACAGAAAACCTGGCTTCAAGGGGAAAAAAACAGGAGACTAGAAAATGAAATATAAA TATCACTGAAACCTCTTGTCTGGATGGCTTCTCCATTCTCATAAAAGCTATTGAAA AATGCTTAAACAGAGCACTGGAAATTAGAGGGTCAGGGCTCCAGGAGCCTCTGGAAATT TCTGTTAAATGCACTGTTCTGTGGATGGAGGTCACTATCTGCTCATTCTCA TGATACAATGACATTCTGTTTCAAGGGAGTGTAGTCCCAGAAGATCTGGACTGATGG |
| 78181 | TCTTGTTATGTGTTATGCTATTGGACTTGGCTACTCTGCTGTAGGCAGCCCTGGGGT ATACCTAACAGCATCTTAAAGAATTCTACACACATTGATTACCTGTGCTGTTACTCATTCT TATCAGATTGTGATTAATTAGAAATCTAACAAAAGAGAGGCAGTGTGATGAAATTACTTAGC AGCTCCTGCACTGGGTTTATTGACAAAATTACTGGAGAGGGGGAGACATTCTGGGG TACCACTTGTGCCAGCGACCCGTGTTCTCTGAGTTCTTCTGGACTGATGG [A, G] TTTTCAAGCATCACAGGTTTATTACACACATTGATTACCTGTGCTGTTACTCATTCT CACACCACTGAGGAAATTGCACTGAGTGTGACTGTGCTAGGTAAATTGACCTCAGATT TGTTACCACTGAGTGAATTGAAATGTTCAAGGGTGGAGCTGAATGAACGAGGAGTTTG TGGAGAAATTGGCAGTGAAGATGATTTAAATTCTGTGATAGCTCCTCGTTGGGATC |

FIGURE 3ZZZ

CTTATTTGGGACCCAGACTATTTAAGCATTGAGTCATCATTATTTAGGCTGAG

78685 ATTTAAATTCTGTGATAGCTCCTCGTTTTGGGATCCTTATTTGGGACCCAGACTAT
 TTTTAAGCATTGAGTCATCATTATTTAGGCTGAGCAAGAACATCTGATGACAGCGTT
 CAATGGCTGAGGCAGTGGGAGTCCTGAGCTTGAGTTGGTGGGAGCTGGAGAGTT
 CTAGAGAACATAGGTTGGTGTCTTGGGGTGGGTTATGGTGAATTAGTCTGGAGAG
 TGAGTAGCTGCTGATGCTTCTTCTTCTTAAACCAGCAAGAGCCCCAACCAAATCCCC
 [C, A]
 AGCTCTGAATGCCCTGGCTGTTCTCAGCCTTCTTGCTGAATTGACAATAGTAGG
 GTAGTAACAGGAAACAGCATGTTAAAGTTAAAATAAGATCTCAGCTTTCC
 TTCCCATTAGCAAGGGTACATTATTTAGGTTCTCTAGATTGAGGCACTGCCTC
 ATTTAAGTTCTGGTGAAGCCATGCATTCTGCAAACCATAAAGTATAAACTCTAGAACGG
 GGGTGTCCAATCTTTGGCTCCTGGGCCACATGGGAAGAAGAATTGTCTTGAGGC

79926 TTACTAATACACTAGCCATGTATGTATAGTGTCTCCTATACACACCAAGAGAACATATGG
 AAAGGACTCAGCAATGATTAGGAGTCCTAAAGTCATACCAAGATTGGAAACCAAGCTTCCC
 AGGCCCTGGGACTTTCTGCTAGAGACACTTCACGGTTCTGACCAACTACAAAGAGTTAA
 TATGCACTTGGCCAATACCTGTTGGTAAAGGTGGATGTTGGGGAGGAGTGGATTGGGAA
 ACAGAATTAGAAGGTCAGTCCAGATGGTACCTTCCATCAAGTTGAACAAGTCAAA
 [G, A]
 CAGGTTATGTTGAAACAACTGAGAGAAAGTAAAGCAAACACCAATTGCTGCAGAACATATCAT
 GGTACAAATTGGACATCTTGGGAGTTAGCGAGTAAGGCAAATCCAGTGAGGGACGCT
 TAATGGGTAATGCCAATTACAATTCTGTTAAATTACATTGCTGATCTCCTGGAAATG
 TCTGTCATTCCCCAAGTAGACTGTGATCTCAAGGCAAGGCTGGCTTATTCTGCTG
 GTTTCTGGAGCAGTAAATACTTGTGCTGGACTGGCTATAAGCATACTAATGGAAA

80198 ACCTTCCCCTCAAGTTGAAACAAGTCAAAACAGGTTATGTTGAAACAACTGAGAGAACAGTA
 AAGCAAACACCAATTGCTGCAGAACATATCATGGTACAAATTGGACATCTTGGGAGTTAGCG
 GAGTAAGGCAAATCCAGTGAGGGACGCTTAATGGTAATGCCAATTCAAACTTCTGTT
 AAATTACATTGCTGATCTCCTGGAAATGTCTGTCATTCCCCAAGTAGACTGTGATCT
 CAAGGCAAGGCTGGCTTATTCTGGTTTCTGGAGCAGTAAATACTTGTGCTGG
 [G, A]
 ACTGGGCTTAAAGCATACTAATGGAAAGTAAAATATTTGGGTTGGTTTTAAAAAGAC
 AGTGGATTGGATCAGTGGAGAGGAAGGTAGAGGGATTTCAGGTGGCAGGGTGCTAAC
 AACAGCCCCTACAGGGCACCAACTGTGTTCTAGGCTGTGTTCCAACCAACTTACAC
 AGATGAATTCAATTAAATTGCAACACCAGCCAAGAGGAAGGTACCAATTATTCTCAT
 TTGGATGTGAGGAAACTGAGGCGTGGGAGATCAAACAACTTGCCTAAAGTTATGTAGC

80540 GTGGTTTTAAAAAGACAGTGGATTGGATCAGTGGAGAGGAAGGTAGAGGGAAATTTC
 AGGTGGCAGGGTCTAACACAGCCCCTACAGGGCACCAACTGTGTTCTAGGCTG
 TGTTCAACCACCTTACACAGATGAATTCTTAAATTGCAACACCAGCCAAGAGGAAG
 GTACCATATTATTCTCATTTGGATGTGAGGAAACTGAGGCGTGGGAGATCAAACAC
 TTGCTAAAGTTATGTAGCTTGTGAGTGGCTTAGCTGAGATTGAAACCTGTGGGTAAAA
 [T, C]
 GCCACAGATGGGAAATTGTTGTTGGGATCCCAGGTTCTGTGTTAGAAGTGGAAAGC
 TATTGTTAGAGAACATCGAATGATGAGGTTGGGAGGGTGTGATGGGAGCTGACAGGCA
 GGTCTAAATGCTGGATTCTTCACTTCTGTTATTGAGTAGGTAGACGGTATAG
 CTCTGGATTCTCAGATTTCTCTTCTTCAATTAGAGACTCTTATCTGGTGTG
 TGCCCGCACACATACATAAACCCACGCGTATATACTCTTCCCTGAATGTTCTTATTG
 GC

81810 TTCTCTATTAGACTGTGCGTGCCTGCCTTGCAAGCCCTGGCAGGACCAATTCCACCGCCTT
 CTCAATTGCTTAAAGATACCTTGTGAGGAAATTAACTCAGAACATCTAGCCCAGTCC
 AAGATTAGGCTCAGAACAGATCTGTCAGTGTTTTGGTGGCTAACATGCTAATT
 GCATGGTTGCCTGGATCCCTTAAGAACAGACTTCACTTGTGAAATGGCGCTACATGTT
 CAAGCTCTGCCTGGCAACTCTTGTCTACGTGAATTCTCTAGTTCTT
 [C, T]
 TGCTTGTGCTGTTCTCTGACCTCTCCGACAAACTCCCTGAAAGAACAGCCT
 GCACTCAACACCTCTTCCACCTCTAACAAACTGAGAACAGTCACTTGTGTT
 GTGATTGTTACCTAACCAAACTGGTGAATTCCATCTGGCTACACAGTGTACCAATTAA
 ACTACCTTCTCGAGAACAGCTACTTCTCTTGTATTATGGACACTGGTT
 TCCCTCTACCTCTGACTGTCAATTCTCACTCTTGTGGCTGCCATCAGGCTTGT
 GC

82211 AAATGACTGTCTCAGAACGCCGTTGATTGTACCTAACCAAACTGGTGAATTCCATCT
 CACCACTGATACCAATTAAACTACACCTTCTGAGAACACGTTACTTCTCTTCT
 GTATTATGGACACTTGGTTCCCTCACCTCTGACTGTCAATTCTCACTTTGTG

FIGURE 3AAAA

GCTGCCATCAGGCTTGAATGTACGTACCATCTCTCAAGTTCCATCCTCAGTTATCTTCTAGTTGGTCTGGTGTACTCATTCACTGACTTCTACCTCCCCATG [G, A]
 CCTCCTCCCATCGTACACTGTGTTCTCATCACAGGATGTTTACCAAGTTCTACCATCCCCTCTACATAGACAGACCAACTCGTCACTCAGTAAGCCACTAG GTGCTAGTTGGTCTTCATTTATGAAAGAAACTACCACCTCCCTACCCCTAGGCAAGAAAGTGAATCTGCTCCCCGCATCCATCAGTTGCCAATTTCTCAAGTGGTGCCTTAGGATGCCACTTGCATCCATACCCATCTTCTCAT
 82304 GAGACAACGTTCTACTTCTCTTGTATTATGGACACTTGGTTCCCTCACCTCTCTGACTGTGCTTCTGCAATGTACGTACCATCTCTGACTGTGCTTCTGCAAGTTCCATCTCCTGTTGGTGCCTCACGGCTTCTGCAATGTACGTACCATCTCTGACTTCTGTTGGTGTACTCATTCACTGTTCTGACTTTAGTTCTACCTCCCCATGGCCTCTCCATCGTACACTGTGTTCTCATCACAGGATGTTTACCAAGTTCTCACCATCCATCCTCTGTTCTTCTACATAGACAGA [C, G]
 CCACTCGCTCACTCAGAAGCCACTAGGTGCTAGTTGGCTTCTTCACTTGTAAAGGAGCTGAGTCATCGTAAATTCTTCTGCTTCCGCCTCTAGGATGCCACTT GCATCCATACCCATCTTCTCTCATTGGCACCCATCATGGACTCTGCTTGGTCTGGTGCAGTGCATCCATCAGTTGCCAATTTCTCAAGTGGTCTAGGATGCCACTT GCAGTAGCCTCTCAGTGATTCCCTGCCTCTGGTTTCTGGCTGAATCCATTCTCCA
 82452 TCTAGTTGGTTCTGGTGTACTCATTCACTGTTCTGACTTGTAGTTCTTACCTCCCCATGGCCTCTACATAGACAGACCAACTCGTCACTCAGTAAGCCACTAG GTGCTAGTTGGCTTCTCATTGGCAAGAAAGCTGAGTCATCGTAAATTCTTCTGCTTCCACATGGTGTGCTCTAGGATGCCACTT CAAGAAAGTGAATCTGCTCCCCGCATCCATCAGTTGCCAAT[A, G]
 TTTCTCCAAGTGGTGCCTCTAGGATGCCACTTGCACTCCATACCCATCTTCTCTCATTGGCACCCATCATGGACTCTGCTTGGTCTGGCTGAATCCATTCTGCTTGCCTCTGGCTGTAATCCATTCTCCAACAAAGGGTGGAAATTCTTCAAAGCATAG GTTGGATGATGTCATTACCGGCTTACACCTTCAACAGCATCCAGTGTGCTCATATAATTA ATGGCTGCTCTGAACCTGGTATTCACTTGGTATGCCAAGACCCAGCCTGCCGGCTC
 82539 CATCACCAAGGATGTTTACCAAGTTCTCACCATCCATCCTCTGTTCTTCCATCACAGGATGTTTACCAAGTTCTCACATAGACAGACCCACTCGTCACTCAGTAAGCCACTAGGTGCTAGTTGGCTTCTTCACTTGTAAATTCTTCTGCTTCCCTCCATCCATCAGTTGCCAATTTCTCAAGTGGTGTGCTCTAGGATG CCACCCATCATGGACTCTTGTGTTGGCTGGCAGTAGGCTCTCAGTGATTCCCTGCCTCTGGCTGAATCCATTCTGCTTGGCTGTAATCCATTCTCCAACAGCATCCAGTGTGCTCATATAATGGCTGCTCTGAACCTGGTATTCACTTCTGCTTGGTATGCCAAGACCCAGCCTGCCGGCTC
 83079 ATCACTCAATAGTGGTCTGGCAAGCTGTTCAAGGCTCATTAAGGACAGGACAGGT CTTCCTTCTTGCCTGAAACAGTCCTGGCCCTGGCAGGTCTTCAATGAACTTGTGAATTGAATTAGACTAAAATGGCAGGGATTATACCAATTCTCTGCAAGTGTAGACA ACTGCTAATGGAACCTGTTCTGAGAGCACTCTGTGTTCCAGAATATGCGAGTA CTTTATGTGCAATTCTCATTAATCATCACAACTCACTGTAACTCTGAGGTAGCTG [A, G]
 TATTATCCCCATTTACAATGAAGACACTGATTCAAGGAGATTAGATTATTTCTGAG GTTCTGAGGTAGAAACACATCTAAGACTTGGAGCAATATCTGGTGTGCTCTAGACCACT GTACTATCTACCTGCCTCTAAGAGCCATGACTTGTCAAGTGTAAAGGTTATGGAC TTGCTTAATAGTAAAGGTTAAAGAATTGGTTAATGAGAAATCTACTCTTAGGTACTA TTCTGAGTGCTGACAAGCATTCTCATGTAGACCCAGCAATAACTCATTATTTACAGAT
 83350 AATCTCACTGTAACTCTATGAGGTAGCTGATATTATCCCCATTTACAATGAAGACACT GATTCAAGGAAGATTAGATTATTTCTGAGGTCTGAAGGTAGAAACACATCTAAGACTT GGAGCAATATCTGGTGCCTCTAGACCACTGTACTATCTACCCCTGCCTCTAAGAGCCATG ACTTGTAGATTATGCAAGGAGTTATGGACTTGTCAATAGTAAAGGTTAAAGAATTGGT TTTAATGAGAACTACTCTTCTAGGTACTATTCTGAGTGCTGACAAGCATTCTCATGTA [T, G]
 ACCCAGCAATAACTCATTATTTACAGATAGAGAAAATGATGATCATGATGCTGGGTTA CTTCTTAGGTTCACTCAGCTCACATCTGGCAGAGGGTGGCAACTTTCAAGTTAAC

FIGURE 3BBBB

TTATTTATTTATTTGAGACAGAGTCTCATTCTGGCCACGCTGGAGTACGGTG
 ACACAATCTCAGCTTATTGCAACCTCCGCCTCCAGGTTAAGCGATTCTGTGCCCTCAG
 CCTCCCGTGTAGCTGGGATTACAGGTGCCACCACGCCAGCTAATTTGTTTGT

83407 ACTGATTCAAGGAAGATTAGATTATTTCTGAGGTTCTGAAGGTAGAAACACATCTAAGA
 CTTGGAGCAATATCTGTTGCCCTAGACCACTGTACTATCTACCCCTGCCCTAAGAGCC
 ATGACTTTGCTAGATTGCAAGGAGTTATGGACTTGTCTAATAGTAAGGTAAGAATT
 GGTTTAATGAGAATCTACTCTTAGGACTATTCTGAGTGCCTGACAAGCATTCAT
 GTAGACCCAGCAATAACTCATTATTTACAGATAGAGAAATGATGATCATGATGCTTGG
 [A, G]
 TTACTTCTTAGGTTCACTCAGCTCACATCTGGCAGAGGGTGGTCAACTTTCCAAGTTT
 AACTTATTATTTATTGAGACAGAGTCTCATTCTGGCCACGCTGGAGTACG
 GTGACACAATCTCAGCTTATTGCAACCTCCGCCTCCAGGTTAAGCGATTCTGTGCC
 CAGCCTCCCGTGTAGCTGGGATTACAGGTGCCTGCCAACAGCCCAGCTAATTTGTTT
 TGTATTTTAGTAGAGGCTGGGTTACCATGTTGCCAGGCCGTCTGAACCTCTGAC

83434 CCTGAGGTTCTGAAGGTAGAAACACATCTAAGACTTGGAGCAATATCTGGTTGCCCTAG
 ACCACTGACTACTCACCTGCCCTAAGGCCATGACTTGTCTAGATTATGCAAGGAGTT
 ATGGACTTGTCTAATAGTAAGGTAAGGAAATTGTTAATGAGAATCTACTCTTAG
 GTACTATTCTGAGTGCCTGACAAGCATTCTCATGTAGACCCAGCAATAACTCATTATTT
 ACAGATAGAGAAATGATGATCATGATGCTGGGTTACTCTTAGGTTCACTCAGCTCAC
 [G, A]
 TCTGGCAGAGGGTGGTCAACTTTCCAAGTTAACCTTATTATTTATTTGAGAC
 AGAGTCTCATTCTGTTGCCACGCTGGAGTACGGTACGGTACACAATCTCAGCTTATTGCAACC
 TCCGCCCTCCAGGTTCAAGCGATTCTGTGCCTCAGCCTCCCGTGTAGCTGGGATTACAG
 GTGCCCTGCCACACGCCAGCTAATTTGTTTGTATTTAGTAGAGGCTGGGTTCA
 CCATGTTGCCAGGCCGTCTGAACCTCAAGTGATCTGCCAGCCTGGCCTC

83527 ATGACTTTGCTAGATTATGCAAGGAGTTATGGACTTGTCTAATAGTAAGGTAAGAATT
 GGTTTAATGAGAATCTACTCTTAGTACTATTCTGAGTGCCTGACAAGCATTCAT
 GTAGACCCAGCAATAACTCATTATTTACAGATAGAGAAATGATGATCATGATGCTTGG
 GTTACTTCTTAGGTTCACTCAGCTCACATCTGGCAGAGGGTGGTCAACTTTCCAAGTT
 TAACCTTATTATTTATTGAGACAGAGTCTCATTCTGTTGCCACGCTGGAGTAC
 [A, G]
 GTGACACAATCTCAGCTTATTGCAACCTCCGCCTCCAGGTTCAAGCGATTCTGTGCCT
 CAGCCTCCCGTGTAGCTGGGATTACAGGTGCCTGCCACAGCCCAGCTAATTTGTTT
 TGTATTTTAGTAGAGGCTGGGTTACCATGTTGCCAGGCCGTCTGAACCTCTGAC
 CTCAGTGTACTGCCAGCCTCGGCCCTCCAAAGTGTGATTACAGATGTGAGCCACCA
 CGCCTGGCTCAACTTTAACCTTAAAGTGAACATGATATAAACATGCCATTTTGGACTGA

83699 ATGCTTGGGTTACTCTTAGGTTCACTCAGCTCACATCTGGCAGAGGGTGGTCAACTTT
 CCAAGTTTAACCTTATTATTTATTTGAGACAGAGTCTCATTCTGTTGCCACGC
 TGGAGTACGGTGACACAATCTCAGCTTATTGCAACCTCCGCCTCCAGGTTCAAGCGATT
 CTTGTGCCTCAGCCTCCCGTGTAGCTGGGATTACAGGTGCCTGCCACAGCCCAGCTAA
 TTTTGTTTGTATTTAGTAGAGGCTGGGTTACCATGTTGCCAGGCCGTCTGA
 [G, A]
 CTCTGACCTCAAGTGATCTGCCAGCCTCGGCCCTCCAAAGTGTGATTACAGATGTG
 AGCCACCAAGCCTGGCTCAACTTTAACCTTAAAGTGAACATGCTTATT
 GGGACTGACTGTAGCATACCCATTCAAAGTCCAGGCTTGAATCAGACAGACGTGGGCT
 GAACTCAGGTTTACCCCTGCTTGTGTAATGAGACATTCACTGCTTCAAGCCT
 CAATTCCCTCATCTGTAAGTGAAGGTGTAAGGTGCCTATCTGATAGGTTGCCATGG

83729 CTCACATCTGGCAGAGGGTGGTCAACTTTCCAAGTTAACCTTATTATTTATTT
 TGAGACAGAGTCTCATTCTGTTGCCACGCTGGAGTACGGTACACAATCTCAGCTTATT
 GCAACCTCCGCCTCCAGGTTCAAGCGATTCTGTGCCTCAGCCTCCCGTGTAGCTGGG
 TTACAGGTGCCTGCCACACGCCAGCTAATTTGTTTGTATTTAGTAGAGGCTGG
 GTTTACCATGTTGCCAGGCCGTCTGAACCTCAAGTGATCTGCCAGCCTC
 [A, G]
 GCCTCCCCAAAGTGTGATTACAGATGTGAGGCCACAGCCTGGCTCAACTTTAACCT
 TAGAACTGATATAAACATGCCATTGGGACTGACTGTAGCATACCCATTCAAAGT
 CCAGGCTTGAATCAGACAGACGTGGGCTGAACCTCAGGGTTTACCCCTGTTGT
 GTGAATGAGACATTCACTGCTTCACTGCCATTCCCTCATCTGTAAGTGAAG
 AAGTCGCCTATCTGATAGGTTGCCATGGGATATGAGACACTTGTGTTGGTGC

84000 CTCTGACCTCAAGTGATCTGCCAGCCTCGGCCCTCCAAAGTGTGATTACAGATGTG

FIGURE 3CCCC

AGCCACCAACGCCCTGGCTCAACTTTAACCTTAACTTAGAAGTGAATAAACATGCCTATTTTT
 GGGACTGACTGTAGCATACCCATTCAAAGTCAGGCTTGGAAATCAGACAGACGTGGCT
 GAACTCAGGGTTCACCCCTTGCTTGTGTGAATGAGACATTCACTGCTTCAGCCT
 CAATTCCTCATCTGTAAGTGGAAAGGTGTAAGGTCGCCTATCTGATAGGTTGCCATGG
 [T, G]
 GATATGAAGCACACTTAGTGTGGTGCATGAGTAGAATGAGTGTTCATTTCATATTTGT
 TAATGTTATTTAGGTCCAGGGATGGGTATGGGTGCTTGGACTCTCTTTCTCCCTGC
 TTCCGCCTATAAAGACATCTTGCTGGTTCTGCCATTGAGAGAATCCAGCTCACGTG
 GGGGGCCTGACAGATGCTTAATATCTCATCCAATTTTACTCTGAATGGAGTGTG
 ATGTATCACTCAACCTGCACTTCTATAAAATGCTCTCAGGCTTGGTAGGATCCAG

84034 CCCCCAGTGGTGTATTACAGATGTGAGCCACCACGCCCTGGCTCAACTTTAACCTTAA
 ACTGATATAAACATGCCTATTTTTGGGACTGACTGTAGCATACCCATTCAAAGTCCAG
 GCTTTGGATCAGACAGACGTGGGCTGAACTCAGGGTTTCACCCCTTGCTTGTGTGA
 ATGAGACATTTCACTGCTTCAGCCTCAATCCCTCATCTGAAAGTGGAAAGGTGTAAGG
 TCGCCTATCTGATAGGTTGCCATGGGATATGAAGCACACTTAGTGTGGTGCATGAG
 [C, T]
 AGAATGAGTGTTCATTTCATATTTGTTAATGTTATTTAGTCCGAGGATGGGTATGGGGT
 GCTTGGACTCTCTTTCTCCCTGCTCCGCCCTATAAAGACATCTGCTGGTTCTGC
 CCATTGAGAGAATCCAGCTCCACGTGGGGGCCCTGACAGATGCTTAATATCTCATCCA
 ATTTCCTACTCTGAATGGAGTGTGATGTATCACTTCAACCTGCACTTCTATAAAATG
 CTCTCCAGGCTTCTGGTAGGATCCAGTGCAGTGGGAAGTGTGCATGTTCCCAGCCTAGA

84213 AATGAGACATTTCACTGCTTCAGCCTCAATCCCTCATCTGAAAGTGGAAAGGTGTAAG
 GTCGCCTATCTGATAGGTTGCCATGGGATATGAAGCACACTTAGTGTGGTGCATGA
 GTAGAATGAGTGTTCATTTCATATTTGTTAATGTTATTTAGTCCGAGGATGGGTATGGG
 GTGCTTGGACTCTCTTTCTCCCTGCTCCGCCCTATAAAGACATCTGCTGGTTCT
 GCCCATTGAGAGAATCCAGCTCCACGTGGGGGCCCTGACAGATGCTTAATATCTCCATC
 [C, T]
 AAATTTTTACTCTGAATGGAGTGTGATGTATCACTTCAACCTGCACTTCTATAAAAT
 GCTCTCCAGGCTCTGGTAGGATCCAGTGCAGTGGGAAGTGTGCATGTTCCCAGCCTAG
 ATGTCACATGCTCCACCCACCTGGAAAGCACCTGGGTATCCCCTGGATGGTAAGTCTG
 TGTGTCATTGTCATCTGCTCAGAACCAATGCTGGCATCTACTTGCAGGTGCT
 GGAAAGCTTTTCATGCCAGCATACATGCAGCACACTTCTCATTTGGATTCTTATCC

84803 TTCCCTTATCCCACGGTACCTTAAACTGGCTGCCTGGGGCACAGAAGTACTAGCACA
 CCATTCACTTATTATTCATTCACTCATTCACTCATTCACTCAACAAATATATTGT
 TCTAGCTTAAAGGACAACCTGAGCAAGACAGGTAAAGTCTTACTCTCAAGAACAGCTA
 GCATTTGGGGAGAAAACAAAGGAGAAATAACTACTGTGCACATGTGAGGCAATTGCAG
 ATGGTGGTCTGAGAACATTGGGATTGAGACTGCCTGGGGTGCCACTTAGTGGTCC
 [A, G]
 CAAGGAAAGGTTCTGAGCTGAGCATGAGTATTGTTCAAGAAGGCTGAGTTGCATCCC
 AAGGTGACACAGTTAAAGCCCACACTGAGCAGCTCTGAGGCTCTAGGGCTGTCAG
 AACCTGGGATATAGCACTGACTATGAGACAAAATCCCTGCTTCATGGAGCTTACATGA
 TGGGGCAGATTCACATTCACTTCTATTCAATTCTTAATTCTTCACTCAGCTATTG
 AGAGCCTACTATGTGCCAAGCACTTCTAGGCACTGGAGAAGTAACAGTGAATGCAAAGG

85027 TGTGAGGCAATTGAGATGGTGGTCTGCAGAATTGGGATTGAGACTGCCTGGGGTGGCC
 ACTTTAGACTGGGTCGCAGGAAAGGTTCTGAGCTGAGCATGAGTATTGTTCAAGA
 AGGCTGAGGTGCATCCAAGGTGACACAGCTTAAAGCCCACACTGAGCAGCTGAGGT
 CCTAGGGGCTTCTGAGAACCTGGGATATAGCACTGACTATGAGACAAAATCCCTGCT
 TCATGGAGCTTACATGATGGGGCAGATTCACATTCACTTCTATTGTTCAATTCTTA
 [G, A]
 TTCATTCACTGTTGAGAGCCTACTATGTGCCAACGACTTCTAGGCACTGGAGAAGTA
 ACAGTGAATGCAAAGGAGCAAGCATCCCTGCCACACAGAGTGCATTCTCCAGAAATATC
 AATAAGGAGTCGGTTAGAAAAATAAGTGGGAAGAGTATTCCAGAGAGAGGAAAAAGGG
 CAAAGGCCCTGAGGCTGCCACTAACCTATGGGTGCTCAATGAACAGAAGGCATGTTGGG
 TAGGGGTACTTAAGGATACACAAGGAACATGGTCTGAGCTGAGGTCACTCAGGGCTTTA

85275 CTTACATGATGGGGCAGATTCACATTCACTTCTATTGTTCTTAATTCTTAATTCTTC
 AGCTATTGAGAGCCTACTATGTGCCAACGACTTCTAGGCACTGGAGAAGTAACAGTGA
 ATGCAAAGGAGCAAGCATCCCTGCCACACAGAGTGCATTCTCCAGAAATATCAATAAGG
 AGTCGGTTAGAAAAATAAGTGGGAAGAGTATTCCAGAGAGAGGAAAAAGGGCAAAGGC
 CCTGAGGCTGCCACTAACCTATGGGTGCTCAATGAACAGAAGGCATGTTGGTAGGGGG
 [A, T]

FIGURE 3DDDD

| | |
|-------|--|
| | ACTTAAGGATAACACAAGGAACATGGTCTGAGCTGAGGTATCAGGGCCTTAGGTATGGA CTTTGCTCTAAATTGCACTGAGTAGGAAGCTTGCAGGATTGAAATAGGGTCATGGAA TATCTGGGTCTTATTCACAAAGTGTGCCTCTGACCATTGTGTGGAGGGTGGATAGTGAG GGACAAGAGTTGGATCAGGGAGGTAAGTGTGGTATTGCACTCCCAGGTGAGAGGC AATGAAATTAAACCTGCAAAGTGAGGCACTGGCTAGAGGTGGGAACTGAATTAAAATCA |
| 87009 | GCTTGATGCTTAAGCACGAACCTTAATCATCGCAGTAGTGTGATTAAGAGTATTCAACATGT ACACTTGCTTGTAGGAAGGGTACACATTGTATTCTCTTTGATATGCAATATTTTATC ATAGCCCTATTAAAGTAATTTCACAAAGTTATATGGATTATTCACAGGTACATCAC GGGAAAAGTCATTTATAATTTCACGTGAAATGTTGAGGTTACATGAAAGCAATT ATGTCATATCTGATACATTAAAGAAAACATGTCCTCTGTTACAGCGGTAAATGACCATG [T, C] CTGCTCTTCTTGTGTATGCCATTATCCCTATTAAATACTCTTGGGCTTCTATAA TTATAAAGCAGATGTTGATATCAGGGAGAGATGTTGAGTTAGAGTAAGTTTCTAGAA AATAGAACGCTGGAAAAAAAAGGAAAACCCAACTTGGCTCGTGCACCCGCTGCTCAGAAC TGCTGTGTGGCGGGTGGCTCGTGCACCCGCTGCTCAGAACGCTTTCTCTCCAT GGGGATAACTGGCTGTGTATCCGAGATGTGGCAGGAGTAGGCAAGAACGTCAG GGGGCAG |
| 87888 | ACTGTATCTCACATGTCGCTCTCCCTTCCATGACCTTGCCCCCTGTGAGCCTG TAGCACTTTCTGAGTGTCCAAGGCCATCTAGCTAAAGTAGCAGAAATGGGATT GAAGCCATGACTGTTGGTATAGAGCCTCAGCTTGAACCTGGGTTCTACTGCCTGGCA CCCCCTGCACAAATCATGGTAAACGTGGTAGGAGAACATAGAGGTATAGGGCAAGCCCCTC TTAATGCCATGAATAATACCCATTTAGGATTGTGGGGAGGACTCAGTGAAGTAACCC [G, A] TGAAGCACTAAACACGTGCTGACACGTGCTCAATAAATGAGCACTGTCTGATGACAA AGGTCGTGGCATTAAATTCTCTCTCTAGGTTTACTTCTGAGGACAGGAATTGTC TTCTTAATGCCACTGCAGCAGAGTTCTCAAGTTGGCACTATTGACATTGGCTGG ATAATTCTGTGTGGAGCTGTCCTGTGGATTGAGGATGTTGAGCAGCATTTGGC TCTACCCGCTACATATTAAAGCACCCCTAGTCATGAAATAAAATGTCAGACATTGCC |
| 88136 | ATGAATAATACCCATTTAGGATTGTGGGGAGGACTCAGTGAAGTAACCGTGAAGCA CTAACACGTGCTGACACGTGCTCAATAAATGAGCACTGTCTGATGACAAAGGTGCGT GGCATTAAATTCTCTCTCTAGGTTTACTTCTGAGGACAGGAATTGTC ATGGCCACTGCAGCAGAGTTCTCAAGTTGGCACTATTGACATTGGCTGGATAATT TTGTTGTGGAGCTGTCCTGTGGATTGAGGATGTTGAGCAGCATTTGGCTCTACCC [G, A] CTACATATTAAAGCACCCCTAGTCATGAAATAAAATGTCAGACATTGCCAACTGCC CCTGTTGAGAACCACTGGCTGCAAGGTATCTCTCATGGGATCACAGGGCTTTATATT TCTTCTGTCTCTCTCTCCCTCTGGGTGTCCTCTCACACACACGCTTAGA GAAGGTGGTAAAAAAAATTGTTGAAGTTGAGAATTGAGAACAAAGGAAAATT TGGAGGCATTAAATGAACAGATAGACTGTCCCATTCCATGGTCAACAGAACATT CAT |
| 88231 | CACTTGCTGATGACAAAGGCGTGGCATTAAATTCTCTCTAGGTTGTTACTTCTT GAGGACAGGAATTGTGCTCTCTTAATGGCACTGCAGCAGAGTTCTCAAGTTGGCACT ATTGACATTGGGCTGGAATTCTTGTGGAGCTGTCCTGTGGATTGAGGATGT TGAGCAGCATCTTGGCTCTACCCGCTACATTTAATAGAACGACCTGGTCTGAGGTATCT AAATGTCTAGACATTGCCAACTGCCCTGTTGAGAACCACTGGTCTGAGGTATCT [G, A] TGGGGATCACAGGGTTTATATTCTCTCTGTCTCTCTCTCCCTCTGGGTGTC TCTCTCTCACACACAGCTTAGAGAGAAGGTGGTAAAAAAAATTGTTGAAGTTGAG AATTGAGAACAAAGGAAAATTGGAGGCAATTAAATGAACAGATAGACTGTGCC CATTCCATGGTCAACAGAACATTCTAATTAGATAGTTGTTACTGCAACTCTGCAC ATTGCCCATCTTAAAGGTTCAACCGAGTTAGAGGATTCTTGCAAAACTTCCCTAA |
| 88482 | CATTGCCAAACTGCCCTGTTGAGAACCACTGGTCTGCAGGTATCTCTCATGGGATCAC AGGGCTTTATATTCTCTCTGTCTCTCTCTCCCTCTGGGTGTCCTCTCT ACACACACGCTTAGAGAGGTTAAAAAAAATTGTTGAAGTTGAGAACATT ACAAAGGAAAATTGGAGGCAATTAAATGAACAGATAGACTGTGCCATTCCATGG TCAACAGAACATTCTAATTAGATAGTTGTTACTGCAACTCTGCACCCATTGCCATC [A, G] TTTGTAGAGGTTCAACCCAGTTAGAGGATTCTTGCAAACTTCTTAAAGCAGTGATAG TATCAGCTTTAAATAACTATGCTGATGAAGTGGTACTTTGGGATAATTGAGA CCAGCCGACTTGCTGCTGAGAGGACAGGGCTATTTGGTAATAATATATGTGATA ATATGTATGTAATATTATAATGTAATACAAATAATTGGTGTAACTGGTGA TGAGGCCAGTCTTGATGCAACCTCTCAAGCTATGATTACATTGGTCAATGTTAGCA |

FIGURE 3EEEE

| | |
|-------|---|
| 88608 | ACGCTTAGAGAAGGTGGTAAAAAAAATTTGTTGAAGTTGAGAATTTGAGAACAAAG GAAAAATTGGAAGGCATTAAATGAACAGATAGACTCTGCCCATGGTCACAA GAATTCATAATTAGATAGTTTACTGCAACTCTGACCCCCATTGCCCATTTTA GAGTTCCAACCAGTTAGAGGATTTCTGCAAACCTTCTAAAGCAGTGATAGTATCA GCTCTTAAATAACTATGCTTGATGAAGTGGTACTTTGGGATAATTGAGACCAGC [C,A] GACTTGCTGCTTGAAGAGGACAGGGCTATTTGTAATAATATATATGTGATAATATGT ATGTAATATTATTATAATGTAATATAACAATAATTGGTCAACTGGTACTCTGAGGC CAGTCTTGATCGAACCTCTAAGCTATGATTACATTGGTCAATGGTCAATGGTACT AATTATCAGCAATCACTTGCTGTTGAAAGTCAGAAGGATGGCTAATAAAATCTT AGAAAAAGAAAACAGGCTGGCGCAGTGGTCACCCCTGTAATCCCAGCACTTGGAGG |
| 88866 | TGCTTGATGAAGTGGTACTTTGGGATAATTGAGACCAGCCGACTTGCTGCTTGAAGA GGACAGGGCTATTTGTAATAATATATATGTGATAATATGTATGTAATATTATAAA TGTAATATACAATAATATTGGTCAACTGGTACTCTGAGGCCAGTCTTGATCGAAC TCTCAAGCTATGATTACATTGGTCAATGGTACATGCAATTATCAGCAATCACT TGCTGTTGCTTGAAGTCAGAAGGATGGCTAATAAAATCTTAGAAAAGAAAACAGGC [T,C] GGGCGCAGTGGCTACCCCTGTAATCCAGCACTTGGGAGGCTGAGGCAGGGCAGATCAT GAGGTCAAGGAGATCGAGACCATCTGGCAACATGGTAAACCCCATCTGACTAGAATA AAAAAAAAAAAAAAATTGCTGGCGTGGCGTGCCTGTAGTCCCAGCTACTCG GGAGCTGAGTCAGGGGAATCGCTGAACCCGGGAGGTTGAGTGGAGCTGAGCCGAGATT GTGCCACTGCACTCCAGCCTGGTACAGAGTGAGACTCCGTCTAAACAAAACAAAACAA AAAC |
| 88870 | TGATGAAGTGGTACTTTGGGATAATTGAGACCAGCCGACTTGCTGCTTGAAGAGGAC AGGGCTATTTGTAATAATATATATGTGATAATATGTATGTAATATTATAATGTA ATATACAATAATATTGGTCAACTGGTACTCTGAGGCCAGTCTTGATCGAACCTCTC AAGCTATGATTACATTGGTCAATGGTACATGCAATTATCAGCAATCACTTGCT GTTGCTTGAAGTCAGAAGGATGGCTAATAAAATCTTAGAAAAGAAAACAGGCTGGG [C,T] GCAGTGGCTACCCCTGTAATCCAGCACTTGGGAGGCTGAGGCAGGGCAGATCATGAGG TCAGGAGATCGAGACCATCTGGCAACATGGTAAACCCCATCTGACTAGAATAACAA AAAAAAAAAAAAATTGCTGGCGTGGCGTGCCTGTAGTCCCAGCTACTCGGGAG CTGAGTCAGGGGAATCGCTGAACCCGGGAGGTTGAGTGGAGCTGAGCCGAGATTGTC CACTGCACTCCAGCCTGGTACAGAGTGAGACTCCGTCTAAACAAAACAAAACAA AAAC |
| 88918 | CTTGAAGAGGACAGGGCTATTTGTAATAATATATGTGATAATATGTATGTAATAT TATTATAATGTAATATACAATAATATTGGTCAACTGGTACTCTGAGGCCAGTCTTG ATCGAACCTCTCAAGCTATGATTACATTGGTCAATGGTACATGCAATTATCAG CAATCACTGCTGTTGCTTGAAGTCAGAAGGATGGCTAATAAAATCTTAGAAAAGA AAACAGGCTGGCGCAGTGGTCACCCCTGTAATCCAGCACTTGGGAGGCTGAGGCGG [G,A] CAGATCATGAGGTCAAGGAGATCGAGACCATCTGGCAACATGGTAAACCCCATCTGTA CTAGAATAACAAAAAAATTGCTGGCGTGGCGTGCCTGTAGTCCC GCTACTCGGGAGCTGAGTCAGGGGAATCGCTGAACCCGGGAGGTTGAGTGGAGCTGAG CCGAGATTGTGCCACTGCACTCCAGCCTGGTACAGAGTGAGACTCCGTCTAAACAAA AAAACAAAACAAAAACAAAAAAGAAAATCTTAGAAAAGAAAATAATTGTAATATT |
| 88940 | TTGGTAATAATATATGTGATAATATGTATGTAATATTATAATGTAATATACAATA ATATTGGTCAACTGGTACTCTGAGGCCAGTCTTGATCGAACCTCTCAAGCTATGAT TTACATTATGGTCAATGGTACATGCAATTATCAGCAATCACTTGCTTGTGTTGA AAGTCAGAAGGATGGCTAATAAAATCTTAGAAAAGAAAACAGGCTGGCGCAGTGGCT ACCCCTGTAATCCAGCACTTGGGAGGCTGAGGCCAGATCATGAGGTCAAGGAGAT [C,T] GAGACCATCTGGCAACATGGTAAACCCCATCTGACTAGAATAACAAAAAA AAATTGCTGGCGTGGCGTGCCTGTAGTCCCAGCTACTCGGGAGCTGAGTCAGG GGAATCGCTTGAACCCGGGAGGTTGAGTGGAGCTGAGCCGAGATTGTGCCACTGCACTC CAGCCTGGTACAGAGTGAGACTCCGTCTAAACAAAACAAAACAAAAACAAA AAAGAAAATCTTAGAAAAGAAAATAATTGTAATATTGAGAATATTGTTGGGAGGA |
| 89133 | GGCTAATAAAATCTTAGAAAAGAAAACAGGCTGGCGCAGTGGTCACCCCTGTAATC CCAGCACTTGGGAGGCTGAGGCCAGATCATGAGGTCAAGGAGATCGAGACCATCTG GCCAACATGGTAAACCCCATCTGACTAGAATAACAAAAAAATTGCTGGG |

FIGURE 3FFFF

CGTGGTGGCGTGCCTGAGTCCCAGCTACTCGGGAGCTGAGTCAGGGGAATCGCTTGA
 ACCCGGGAGGTGGAGGTTGAGTCAGTGACGCCACTGCACTCCAGCTGGTGAC
 [A, G]
 GAGTGAGACTCCGCTCAAACAAAACAAAACAAAACAAAAAAACAAAAAAAGAAAATCTTA
 GAAAAAGAAAATAATTGAAATTTCAGAATATTGTTGGGAGGATATGTGTGCTCAA
 GAAATATATACTGAGAACCTTACCATGATGCTAGAGATTGAAATTGCCCCATGTCACATG
 AAAAATGAATAGAATATAAACATTAAATTGAGCCATGTCATCTGTATTATATTCTT
 TTATAGAAATTGAAATGGTATATTAACTGAATTATTAAACACTGGGGACAATAGG

89260 TGTTGAAACCCATCTGACTAGAATACAAAAAAAAAAAAAAATTGCTGGCGTGGTG
 GCCTGCGCCTGAGTCCCAGCTACTCGGGAGCTGAGTCAGGGGAATCGCTTGAACCCGGG
 AGGTGGAGGTGAGTCAGTGAGCCGAGATTGTCAGTCCTCCAGCCTGGTGACAGAGTGA
 GACTCCGCTCAAACAAAACAAAACAAAACAAAAAAAGAAAATCTTAGAAAAAA
 GAAAATAATTGAAATTTCAGAATATTGTTGGGAGGATATGTGTGCTCAAGAAATA
 [T, C]
 ATACTGAGAACCTTACCATGATGCTAGAGATTGAAATTGCCCATGTCATGAAAAATG
 AATAGAATATAAACATTAAATTGAGCCATGTCATCTGTATTATATTCTTTATAGA
 AATTGAGAACATGGTATATTAACTGAATTATTAAACTGGGACAACTAGGCTTAAT
 CATTATCTAACCTGTACGTTGAAATTGAGCCACCACCATTAATTCAAA
 TTGGGTTCTTACTCAAAGAGTGTGAAAGGACCCAGTACCAAATGGCTGGCCAAAATG

89298 AAAAATTTGCTGGCGTGGTGGCGTGCCTGAGTCCCAGCTACTCGGGAGCTGAGTC
 AGGGGAATCGCTGAACCCGGGAGGTGGAGGTTGAGTCAGTGAGCCGAGATTGTCAC
 CTCCAGCCTGGTACAGAGTGAAGACTCCGCTCAAACAAAACAAAACAAAAAC
 AAAAAGAAAATCTAGAAAAGAAAATAATTGAAATTTCAGAATATTGTTGGG
 GGATATGTTGCTCAAGAAATATACTGAGAACCTTACCATGATGCTAGAGATTGAAATT
 [G, T]
 CCCCATGTCATGAAATGAATAGAATATAAACATTAAATTGAGCCATGTCATC
 TGTTATTATTTCTTTATAGAAATTGAGGTTATTAACTGAATTATTAAAC
 ACTGGGACAATAGGCTTAATCATTATCTAACCTGTACGTTGTTGAAATTGAG
 CCCACCACCATTAATTCAAATTGGGTTCTACTCAAAGAGTGTGAAAGGACCCAGT
 ACCAAATGGCTGGCCAAAATGTCATGAACTAAATGCTGGGATGGTCATACAATG

89682 ATTCACTGAAATGGTATTTAACTGAATTATTAAACACTGGGACAATAGGCTTAATC
 ATTATCTAACCTGTACGTTGAAATTGAGCCACCATTAATTCAAAT
 TGGGTTCTTACTCAAAGAGTGTGAAAGGACCCAGTACCAAATGGCTGGCCAAAATGC
 TACATGAACTAAATGCTGGGATGGTCATACAATGAGTTTAAGTGGCTAGACCC
 TCAGAAGCACTTCTTAATTGACCCATGGTTCTTAATCCTTCTGTACATTACAATC
 [G, A]
 CTCAGCAGCTTAATACAAATGTTGCTTCCGGGCCACACTCCACATCTTCTGACTCTC
 TGATTTATTGGTCCATGGGCTATACATCAGGTGTTTAAAGGTCTCCAAGTG
 ATTCTAATGTCACCTGCATTGAGGACCAAGGGAGGTGAGGAAGCCTGATAACCTTAC
 TCTCCAGCCTCATCCTAACCCATGATTGTTATGGGATTGTTGCTACACACCCAGCT
 TAGTCATAGCATTCTACTCTAGTTTTTTAGATGCAATTTTATTCTAAAGA

89757 TACGTTGTTGAAATTGAGCCACCATTAATTCAAATTTGTTCTTACTCAA
 AGAGTGATGAAAAGGACCAAGTACCAAATGGTCTGGCCAAAATGCTACATGAACTAAAT
 GCTGGGGATGGTCATACAATGAGTTTAAGTGGCTAGACCCCAAATCAGAAGC
 TCTAATTAGCACCAGGTTCTTAATCCTTCTGTACATTACAATCGCTCAGCAGCTTAAT
 ACAAAATGTTGCTCCGGGCCACACTCCACATCTTCTGACTCTGTGATTAAATTGGTC
 [C, T]
 GAATGGGCTATACATCAGGTGTTTAAAAGGTCTCCAAGTGATTCTAATGTTAC
 TGCAATTGAGGACCAAGGGAGGTGAGGAAGCCTGATAACCTTACTCTCCAGCCTCATCC
 TCCAATCCCATGATTGTTATGGGATTGTTGCTACACACCCAGCTAGTCATAGCATTCT
 TACTCTAGTTTTTTAGATGCAATTTTATTCTAAAGAAAAAGATTCTTTAG
 CACCTTATTCTAAAGAGCTTAATTGCTGTGCTAGAACTCTAAACAGTGAGCATT

89817 AGAGTGATGAAAAGGACCAAGTACCAAATGGTCTGGCCAAAATGCTACATGAACTAAAT
 GCTGGGGATGGTCATACAATGAGTTTAAGTGGCTAGACCCCAAATCAGAAGC
 TCTAATTAGCACCAGGTTCTTAATCCTTCTGTACATTACAATCGCTCAGCAGCTTAAT
 ACAAAATGTTGCTCCGGGCCACACTCCACATCTTCTGACTCTGTGATTAAATTGGTC
 CGAATGGGCTATACATCAGGTGTTTAAAAGGTCTCCAAGTGATTCTAATGTTAC
 [C, T]
 TGCAATTGAGGACCAAGGGAGGTGAGGAAGCCTGATAACCTTACTCTCCAGCCTCATCC

FIGURE 3GGGG

TCCAATCCCAGATTGTTTATGGGATTGTTGCTACACACCCAGCTTAGTCATAGCATTCT
 TACTCTAGCTTTTTTTAGATGCAATTCTAAAGAAAAGATTCTTACCTTACACACCCAGCTTAGTCATAGCATTCT
 CACCTTTATTCTAAAGAGCTCTTAATTGCTGTGCTTAGAACTCTAACAGTGAGCATTG
 GTCAAACATAGAACATAGCAGAACATAGAAGGGGTTGGACCTCGGGTGAGGAGGGCTGTCGATGGTCTCTTCG
 AAAGTGCCTTCGTTTTGGTGGGGGGTAAAAAGCAATCTGTTGTACCCACAGC
[G,A]
 GTGCACTTAAACAGGAAGCCCTACTGGGGCCAGCCTCTATGTCATTAAGTTTCA
 CGCCACATCCTACCTATCATCATGCACCCATGTCATCGTTCTTTAAAGGGTGCAGTTT
 TTTGCTTAAGCACAAGGAGCTGTGACCTGTGTTGTCATCCCTGATGTCATGTCATGT
 GACTTCATGACATGTGGGTGACTTTGATCTGAAGGACCAGGGACCCAGTCTGTGGAT
 CACCACTCTCCGTGGGTGGTTGGTCTTGTCTAGCCCACCCAGCCAGGTGCAAT

90248
 AAAAGATTCTTAGCACCTTATTCTAAAGAGCTCTAATTGCTGTGCTTAGAACTTCT
 AAACAGTGAGCATTGCAACATAGAACATAGCAGAACATGAAGGGGTTGGACCTCGGGTGAG
 GAGGGCTGTCGATGGTCTTTGAGTGCAGGCGGGTGGGGCTGACATCTCTCGCT
 TCTGGGCCATTGATAAGTGCACCTAAAGTGCCTTCTGTTTTGGTGGGGGTGAAA
 AAGCAATCTGTTTGACCCACAGCGGTGACCTTAAACAGGAAGCCCTACTGGGGCAG
[G,C]
 CTTCTATGTCATTAAGTTTACGCCACATCCTACCTATCATCATGCACCCATGTC
 TCCTTCTTAAAGGGTGCAGTTTCTGTTAAGCACAAGGAGCTGTGACCTGTGTTGT
 CATCCCTGATGTCATGTCATGTCATGACATGTCATGTGGGTGACTTTGATCTGA
 AGGACCAAGGGACCCAGTGTGGATCACCACTCTCCGTGGGTGGTTGGTCTTGTTC
 TCTAGCCCACCCAGCCAGGTGCAATTAGGAATAAGGAAATAGCAAAGGAATTGGCTCA

90283
 TTTGGTGGGGGGTAAAAAGCAATCTGTTTGACCCACAGCGGTGACCTTAAACAGGA
 AGCCCTACTGGGGCCAGCCTCTATGTCATTAAGTTTACGCCACATCCTACCTAT
 CATCATGCACCCATGTCATCGTTCTTTAAAGGGTGCAGTTTCTGCTTAAGCACAAGG
 AGCTGTGACCTGTGTTGTCATCCCTGATGTCATGTCATGTGACTTCATGACATGTGG
 GTGACTTTGATCTGAAGGACCAGGGACCCAGTCTGTGGATCACCACTCTCCGTGG
[C,G]
 TGGTTGGGTCTTGTCTAGCCCACCCAGCCAGGTGCAATTAGGAATAAGGAAATAG
 CAAAGGAATTGCTCAAGGCCATGCCAAGCATTCTCATCTCATGAAAAGGAAAGAGA
 GAGAGTGTGTGTTGGCTAGATTAGTAGAAACAGGCTGGTGAAGAGCTAGAAC
 TTGGTTAAATTTCTAGCCAAAAGTAAGATTTTAAAAGATTATTCTGGATCCAATC
 CCTGTTGCCATTCTATGAATAATCACCAATTGTTTAATGTGAATAATAGCACACAGC

90506
 CACGCCACATCCTACCTATCATCATGCACCCATGTCATCGTTCTTTAAAGGGTGCAGT
 TTTTGCTTAAGCACAAGGAGCTGTGACCTGTGTTGTCATCCCTGATGTCATGTCAT
 GTGACTTCATGACATGTGGGTGACTTTGATCTCTGAAGGACCAGGGACCCAGTCTGTGG
 ATCACCACTCTCCGTGGGTGGTTGGTCTTGTCTAGCCCACCCAGCCAGGTGCA
 ATAGGAATAAAAGGAAATAGCAAAGGAATTGCTCAAGGCCATGCCAAGCATTCT
[C,T]
 ATATGAAAAGGAAAAGAGAGAGAGAGTGTGTGTTGGCTAGATTAGGTAGAAAACAGG
 CTGGTGAGAAGCGTAGAACCTGGTTAAATTTCTAGCCAAAAGTAAGATTAAAAGA
 TTATTTCTGGATCCAATCCCTGTTGCCATTCTATGAATAATCACCAATTGTTTAAT
 GTGAATAATAGCACACAGCAAATTGAGCCCCCTGAGTTTACCAATTGCAATTGCTT
 TAGGCCGTGAGGCATGTAATTGCAAGGTTGATGGTAGTAATGGAAAACACAACA

90607
 GCCCAGCCTGAGATTGAAACAGAGGGCATGATGCTGGGCGTTGACTCATTTGGCTGTG
 AGTGTGAAAGCTGCACTGGAGTACAGCAAGTCAGCACTATCAAGCCAGCCCTTGT
 TGCCAGGAGCTGCCGGGAGAGAGGGTGTGTCATGTCAGGGACTGACCTCTTTAG
 TCAGGGAAAGTAGTTGGGAGTAGAAAGCAGAACCTGCACTGCTGGTAAGATCTGAGTG
 GTCACTGACAACCAGCTGCAACCTGTTACCAAGGGCAACAAAGATGGGCCAGGGTA
[A,G]
 TGGTGGCTCTGCCACATCTCTGTGCTAGAACACCTTGGCACTTGCTCTGGCTTG
 TCTTTCACCAATCCAGTGTCTCATCTGCCATAATTAACTGCTCTGGGACAGTCATGAGTTACAT
 AGATGAGTGTGGTAAGTTGCCCTTGTGGGGGAGCATCCTTGGTCCACTCTCA
 GGAGGGCATCTATGTTTTGTGATATTCTAAGAGTTGATAAGCAAGTGCATC

92329

FIGURE 3HHH

| | |
|--------|--|
| 92912 | TGTATAAGCAAGTGCATCAAGCCAACCTTGTCTACCCAGCTCCCTTTGAGACCAGCAGA AACTATTATCAACTGGCAGTTACGTAACCTCTGGGCCCAATTCTCATATAAAA TGAGGATAATAATCGTATCTGCTCATAGAGTTGCTGTGGGAGTAAGAGTCAAATGT ATCTGTCAGTGAAGGAAAAAAAGAAAAAAACAAAACAAAGAGTCAAATATATCTAGC GTTCAACAGAACCAAGGTATGCAGCCAGTGCCCAATAGGTGTATGAGTTCTATGGCCA [C,A] TGTAACAAATGACCACAAACTTAGTGGCTAAAACAACACACATTTATTATTTACAGTT CTGGAGGTAGCTAAGATGATGCCAGGTTGGTGGCTCAAGCCTGTAATCCCAGCA CTTTGGGAGGCTGAGGTGGCAGGATCACTTGAGGTCAAGGAGTTCCAGACTAGCCTAGCCA ACATGGTGAACCCATCTACTAAAATACAAAATTAGTCAGGCACGGTCACGAGCA CCTGTAATCCAACTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGTGG |
| 95043 | GGTTTCGGAGGCTACTTGAGATGTGATTGCTCTAATGAACCTCCACGGGCTTTTAAC CTGTCGATGTGTTATTCAGATGGAGCAGGAAATGACCCGGTTACATGGAGAGTGTCA GAGGTGGAGGCTGTGCTTAGTCAGAAGGAGGTGGAGCTGAAGGCCTCTGAGACTCAGAGA TCCCTCCTGGAGCAGGACCTTGCTACCTACATCACAGAAATGCACTGAGTGTGAGCCTCCCTGA AGCCCCCTCCCTGGAGGTGGCACTTCTGTTGTGTCTCATCCTGTTCATGATG [A,G] CTCCATGAGGCACATCACAGCAAATGGCAGAGAGTAGAGAGAGAGGGAGAGCACAAAAGCAA GATCTGTGTTTGAGAGTAGTGTGAGAGCCAGGCAGGCTGAAGGCCCCAAGAAATGAGATTGGA CTCATTTCAAGCAGAAAGTGCAGGTAGACGGCTGGTACCATGGAGTCTGGAGATGGGAGT AATTGATCTTGCCGCAAGTTGCAAAGATCTAACATCTCCATCCCAGCCTCTGTGGT CTGCGTTGTCTGACATGAGCAGCCTTGAGAACAGACTCCAACTATGTACAAGAAAA |
| 95227 | TCCCTGGAGGAGGACCTTGCTACCTACATCACAGAAATGCACTGAGTGTGAGCCTCCCTGAAGCC CCCTCCCTTGAGGTGGCACTTCTGTTGTGTCTCATCCTGTTCATGATGACTC CATGAGGCACATCACAGCAAATGGCAGAGAGTAGAGAGAGAGGGAGAGCACAAAAGCAAGAT CTGTTTTGAGAGTAGTGTGAGAGCCAGGCGTAAGGTCCCCAAGAAATGAGATTGGACTC ATTTCCAGCAGAAAGTGCAGGTAGACGGCTGGTACCATGGAGTCTGGAGATGGGAGTAAT [T,C] CATCTTGGCGCAAGTTGCAAAGATCTAACATCTCCATCCCAGCCTCTGTGGTCTGC GTTGTGCTGACATGAGCAGCCTGAGAACCCAGACTCCAACTATGTACAAGAAAACCTTA CTTCACTTCTGACATCAAATTTCATTGGCCAGAACAGGTGTAGTGACAAGAAAA TAGCCTGAAAACCCAGACCCCTGTCAATTATTACATGTGACTTCATTTTCTTTC CTTCACAAAGAGTAGACTGTCTTCTCCATTGTTAAATTTCATTCAAGGTGTT |
| 107428 | ATGTTACTCTGTGTTGGCTCTCCAGCTTGTGTTGCCTTCAACAGTGTATCCAGACA TCCCTTCTCCTGTCACTAACGGCTACTTTATTCTTGAGCAGTGGCATAATT CCCTGATGTGTTATATCATAAGTTAGAGAATGCTAAATTCTGTTGGGCTTGT GGTTCTGAGGGATTAAATTCTAAATTAAACAGTGTATCTGGAAACAATTGGT CTGATTCAGCCCTTAAAGAGGACTATCATGTTACCTGAATGGAGATAAACAGGCTCAC [G,A] TAAGAGAAAAGGTAAGAGGGATGAACCTCCACTTATCTAAACATTACTGGCCGTT TTGGGAAATTGCTGCTTTATTCTGACCTAAATAAAATAAGTTATGTGCTGGTT CATATTAGTGAGAACCCAGTGCCTGGAGAGAAGGTTCTGTGCTGTGAGTGGAGGACA TTCACATATGAATCTTGGCAGACTGGCTTGTACTGACCAACAGTGCCTTCAGAACCAA TGCCACAGCTTGTAGGTTATGGCCTGAAACACCCCTTCTTACATATTGCTTAGAAC |
| 114951 | GACAGTGAGACATGTGCTTTGATCTCTCAGCTAACGATTATCTGATTTTCAAGGCTG TCTCAAAACTACCAGGCCCTGCTCACATGCTGCTGCTGAAAGCCAGGGTTGGAAACC AGCTGCCCATCAGAATGAGGCTGTGACTTAAAGTATTGGTTCTGTTTATTACCTCC TTGTTGGCTCTCCAGAGTCACTGGCTTCCGCTTCAATTCTATCGGTGAAATG AGATATTAAATTCTTATTGACTTCAATTCAATTGCTGAGTGTATTGTCCTTGGGA [A,G] GTTCTTGGAGTTCTGTGCTTGAATAGTTGTTTTTATTCTGGTGTGAGG CATGTTCAAGTGAATGCACTTACCTTACCTTACCTTACCTTACCTTACCTTACCTT TGTCCCAGCTGCTGGCCCATCCCAGAGTTCTGATTCACTGAGTGTGGGCTGGG CCAATAATTGCAATTCTTCTTCTTCTGAGACAGAGTCTGACTGTGTCATCCAAGCT GGAGTGCAGTGGCACGATCGTAGCTCATTGAGCCTCAAACCTCTGGCTCAAGCCGTC |
| 115042 | GCTGCTTGTAGGCCAGGGTTGGAAACCAAGCTGCCATCAGAACGAGGCTGTGACTTAG AAATTGGTTCTGTTTATTACCTTCTGTTGGCTCTCCAGAGTCAGTGCCTT TCCGCTTCAATTCTTATCGGTGAAATGAGATATTAAATTCTTATTGACTTCAATT AATTGCTGAGTGTATTGTCCTTGGGAAGTTCTTGAGTTCTGTGCTTGGAAATA GTTGTGTTTATTCTGGTGTGAGGCTGTTCAAGTGAATGACTTCAACTTCT |

FIGURE 3IIII

[A, G]
CCATTTAGGAGCCACAATTCAAGTTATGTTGCCAGCTTGCTGGCCCCATCCCCAGAG
TTTCTGATTCAGTAGGTCTGGGGGGGGCCAAATAATTGCATTCTTCTTTTCG
AGACAGAGTCTGACTGTGTCATCCAAGCTGGAGTGCAGTGGCACGATCGTAGCTATTGT
AGCCTCAAACACTCTGGGCTCAAGGGCTCTCCACCTCACCCCTCTGAGTAGCTGGGACT
ATAGGCATATACTACCATGCCCTGCCACCTTTTAATTTTTGTAAGGATGGGGTCTCA

117217 GCTGGGCTAGCTGCCTCTGAATCACCGCAGTAGCTCTTTACTATAGATTCTGGTCC
CACCCATGGAATGTGATCCATGAAGTCTGGGGTTATCCCTGGAATCCTTAAGCTCCCT
AAGTGGTGGGATGGGAAAGAGATATGCTTATGTTACTATACCTTCTTATTATTATT
TTAAAATTCTTGCCGGCGCAGTGGCTCACACCTGTAATCCCAGCACATTGGGAGACCGA
GGCGGGTGGATCACTTGAGGTCAAGGAGTTCGAGACTGGCTGGCAACATGATGAAATCC
[C, T]
GTCTCTACTAAAAATACAAAAATTAGCTGGGCATGGTGGCGCATGACTGTAGTCCAGCC
ACTCCGGAGGCTGAGGCAGGAGAACGTTGAACCCGGGAGGCAGAGGTTGAGCTGAGCC
GAGATCGTGGCACTGCACTCCAGCCTGGTAACAGAGTGAAGACTTCATCTAAAAAAAC
CCAAAAAAACAAAACCTTTTCAATTACCGGAACGTCAAGCTTATGGAGTCGGGATT
TTTCTGTTTATTCACTGCTGTTCCCTAACATCTAGAATAGTGGCTGGCACGATAGGC

120452 TACTCAATCCTCACACAGTGTGCAAGAGGATTAGTCTTATCCCTGTTTAGAGAGGATG
AAACTGAAAGGCAAGCAGGAGTGAAGTCACCAAGCAGGAGGCTGAAGCCGCCAGGCTAACTG
GCCTTATAGCTACCTAGGGACTCAGGAATATCACACCTGTTATCATCAAACATTACTTGAGGC
GATTTCAGTCTGGGTTAGAAGAGTTCTTTGCTAATCAAACATTACTTGAGGC
TTCATATTCTTCAAGATTTCTGTTAGTGTACCAACACATGTAATAATTCCCT
[A, G]
TTTATTTCAAAAAGGGGTTGTACTTTATTCTTACAAGATTTCACTTATATTGTCATG
GACAATTTCATGGCACTGATGAATAAAATGGATCTGTTGTTTAAATATCTTGTCTT
ATCCCATTGTTACATATGTCAATTAGCAGTCTCAACTGATGGATAGCTGAATGA
TTCCATGTTTCCCTGTTACAACAAACTACTGCAAGGAATCTATTATCTTCTAT
TTATCTGCAAACATTGTAAGTACCTGTAATTGTTAGAAGTGGAAATTACTAGGTCAAAG

124035 AAAAAACTGATGCTAGTGAATGCATAATTAAAGAGGTTAGAGAAGCTGCTTCAAA
TGCCCCCCCAGTCTGAGAGTTAAATCTTACATAAAGGACAATATGAAAATTCTT
TTCTTTTTCTTTTTGAGACGGAGTCTCGCTCTGCCCCCAGGCTGGAGTCAGTG
GCGCGATCTGGCTCACTGCAAGCTCCGCCCCCTGGGTTACGCCATTCTGCCTCA
GCCTCCGAGTAGCTGGACTGCAAGCGCCGCCACCATGCCAGCTAATTGTTGTATT
[G, A, T]
TTAGTAGAGACGGGGTTTCACCGTGTAGCCAGGATGGCTCGATCTCTGACCTCGTGA
TCCACTCGCTTGGCTCCCAAAGTGTGGGATTACAGGCATAAGCCACTGCGCCGGCT
CTTTTTCTTAAACTGCTTCCAGAAAAGTGGATATTAGTTGATGTTAGAAAAG
GCTTGGAGTTGCAATTACTTGTCTAGCATCTGGCTGTCTGTTCTGAGACCTG
AGACCTACTTGAGATAATTCTGGTGTCAAGGCCCTGGAAAATAAGTCCCTATGT

124589 ATAATTCTTGGTGTTCAGGCCCTGGAAAAATAAGTCCCTATGTTGTCAGTGTCAA
AGTTCTCACCTCAGCACTATTCTTCTCAGGTTATTTCTGTAATCTGTTCACTT
GATCATTACATTAAGAATTAGATTATTTGCTATAACTACAAAGCATTATGTTTAAA
AATTATGTAACATTAGAACAGGCATGAAAATTAGTTATTAAATTAGTGGAAATAAG
CACAGAAAAAAAGTTAAATAATGCACTTATCACTTAGGATTAAACATTTATGGC
[C, T]
GGGTGTAGTGCCTCACACCTGTAATCCAGCACGTTGGAGGTCGAGGCGGGAGGATTGC
TGGAGTTGAGACCAGCCTGGCAACAAAATGAGACCTAGTCTCTACAAAAATCAAAAA
ATTAGCCAGACATGGTAGTACATGCTGTAGCTCCAGGACATGGGAGGCGAACAGTA
GGATCGCTGGAGCGAAGGAGGTTGAGGCTGAATGACCCTGTTGCACCATTGCA
GCCTGGCGACAGAACAGACCCGTCTAAACAAATTATGCTGCAATTGCAAAT

125136 GCGACAGAACAAAGACCCGTCTTAAACAAATTATGCTGCAATTGCAAATTAAAAA
AAAATCATGGATTAGAAATAATTGAAGCAAGGTACATTGACAGTGTAAACCTCAGCACT
ACTGACATTGATCTGAATAATTCTTGTGGGGATGCGCTGTATAAGATGTTAG
CTGCATCCCTGACTCTACCTCTAGATGCCATTAGCACCCCTCCAGATGTGATAA
CCAAAATGTCTAGACATTGCCAGATGTGCCCTGGGGTAGGAGGGTTGGGGAAAGTGGG
[G, -]
TTTGAGAACCTTAGTTGATCATGCCCTGCACTAGGTTGAGAAGCATCAGAAAGCTAATT
ATTAGACAGGAATATGTGTTGCACTAGAAGAAAACCTCAGAAACAACTAATCAAGTCCAAAG
TTACTGCTGGTAAATAATAGGAATTAAGAATAAGACCCCTATCTGTGCTGGGTCA
TTCTCTCGGAGCTTGGTGGAGAGACAGGGTCCAGTTCAATTTTAGTGTCTTC

FIGURE 3JJJJ

125856 GACTGCCCTTTCAGGTATAATTGTAACAACCTCACTCCAGGTGGGGAGCCTCCCAGGT
 AGGCAGATAAGGAATTTTGATTAAGTGCAGAAAGTCCTTTCTTATAGAAGAGCAATA
 ATCTGCACACTAGATCAAGTCAGTGTGGATATAAAATTATAATTGGGGGATATT
 TTAATAGTGGTTTGGGTTAACATATTCCCTAAATGAAATGTCTGTAGGCCCTAAAGT
 AGGTTCTAAATGTTGCCGTACTCATAGTATACCATATAAAATATAATCCACATTACTG
 GAACTACCATAATTACCTACCCAAATCAATCCCTCCCTACACCCCCACGTAAGT
 [G, T]
 ATCTTCGTATTTGGATACCTGTGAATCTTAGATCTGTTAGCTTTCCATTATCATTGT
 CTTATTTCAAGCTCTCATTCAGAATGTTGCTTGGAGTATTTCTGTTAGTAAACACAG
 GCCCTAGTGAECTCTAGGACCTGCTGTGACTTAGGTACCCACTTCACTTTATTAGAAT
 CTCAAAGAATGGTGAACAGCTGAGTCCAATCTGTCATTGGCTCTCATGAAAACAGT
 CATAAGGAGATTGTAGATAAACACATTATAGCATAGTAAGTGAATCAACCCATT

126256 ATTTTCTGTTAGTAAACACAGGGCCTAGTGAETCTAGGACCTGCTGTGACTTAGGTCA
 CCCACTTCACTTTATTAGAATCTAAAGAATGGTGAACAGCTGAGTTCCAATCTGTCTCA
 TTTGGCTCTCATGAAAACAGTCATAAGGAGATTGTAGATAAACACATTATAGCATAG
 TAAGTGAATCAACCCCATTGGCAGTTCAGGCAACCCCAACAGAGATAGCCCCTTTAGAT
 TTGTGTAGGAGTGAAAAGCTTATTTCCACAAGAGGAACGACATAGTAAGAACTCTT
 [C, T]
 CCCCCCTGCTCTGCAGGTATATGCTTATGCCCTAGGCAACTTGATGGGAAAGTTAGGTT
 TAAATAGTTTATTGTAAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT
 CTCTCTTTCAAGACAGAGTCTGCTGTCAACCCAGGCTGGAGTGCAGTGGCG
 ACCTGGCTCACTGCAACCTCCGCCCTGGTTCAAGAGATTCTCTGCCCTCAGCTCCC
 CGAGTAGCTGGATTACAGGTGCCGCCACCATGCCCTGGTAATTGGTATTTAGTA

127332 CGCGCCACTGCACTCTAGCCTGGGCACAGAGCAGTCTTAAAAAAAAAAAAAAATTAAAC
 TAAGTTAAGTAGTACTTGGGCCCTATCAGATAGTGTCTCTGCAGGGCAGGCTGGGCC
 TACTACAGTTCACTTTAATATCTCACCAGAGATTAGCTGACTGAATTGCCACAGAGGA
 GAGTGAAGCATATTGCAAAATCATAATCAGGACATGTGAGATTATGTGTTGAACAGGTT
 TAATGTGCTTGGGGTCAGTGACTAATGGAACTTAGCAGTCATTAACGTCACTAA
 [C, T]
 GTTTGTTAATTACTATTACACACTTAGAGATTGTTAATTAAACAAAGAGTAATGCC
 CTAATCACTATTATGCACTTAAGAGGAAGCCAGTGGGTATTTCCCTCATAGCTTCT
 AGTACAAATTAAATAAAATTAGAAAATTAGAAAATGTTGTGCATAAAATGTGTATAATCA
 TGATCTGTTAGGGGCAAAATTAGTTGGGAATTATCTTCTTGATAAGTCTTATCA
 TTAGTTGAAATGGGCATTGGCAATTCACTGTTGGCTGGTTGTGAGAAACA

128302 GACCATCTGGCAAACATAGTGAACCCCCGCTCTACTAAAAATACAAAATTATCTGG
 GTGTGGTGGCATGCACCTGTAGTCAGTTACTCGAGAGGCTGAGGCAAGAGAATTGCTT
 GAACCTGGGAGGAGGAGGTTGAGCTGAGATCGCAGCACTGCACTCCAGCCTGGTG
 ACAGAGCGAGACTCCATCTCGAAAAAAATCTATTGGTTATGTGTTGGTGCAATT
 TAACCAAAACCTTACTTAACCTAACCTGCTGAGCTTTAACATACAT
 [G, A]
 TTAAAAAAACAGAATCAGCCCAGATTCCCAACATATTAAAGTCTCTCTTGACTTAAGCT
 ACTTTCAGTTCTCAAGCTTAAGTCACCCCTGTTGTTGCTTAGGCCAAATTTCCC
 CTTGTCTCCCTCTGTCTATCAAGCCAAGCCTGCTGTGGGTTTGGATAGTGTGACC
 ATCTGGCTTCTGAAGGGGCACTTACAGGGGAAGTTTATTGCCAAACCGGGTGGACAA
 TCCATGTCAGGAATGATTATACACACTGTTCTGGTTAGGGCTGGAAAACCTGT

129122 ACTTCTTGGTAAAAAGCCCAGCCTCAAGGTATGTGGACTTACCCACAAATCTCTGG
 CTCACTCAGTTCACTTACCATCGTTAATGAGGAAAAAGTTCTTGTACCATGTAAC
 GCTGACCTGAGAGAAGCCATTATGATATAGGTTATAGACAGCTGGCAACACACTAT
 ATAGCTAAATCAGGGCCTCTGTGTTGATGGGAGAAAAGTTAGAGAAGGAATCTT
 GACTTCAAATTCTGGCTCAGTAAACGTCAAATAATTGAAAGACCAAGGGGTTGC
 [C, T]
 AGCTTACTAGGCTGCCAGACAGGGGTGGTATGAGGGGAAGAAAGCCTGCTTCTT
 CAACAGCATATCCAGAAACAAAGGACATTAAACACTAAAAAGTCAGAAGGACAAATT
 TCAGAAAAAAAGGACAGTCCTTAAATGGGTTACATTAGCTTATAAAATGCCCTCTG
 TATTGTCTTAATCTTCTTGCAAGGTCAAGTGTGCTGGGTGCCATTGGATTATAAGCCC
 CTGGGTTCTGAACGGTGGGGAGGGAACACAGGAACAAGGTTAGGGGTGAGGAAAAA

129376 TGGCTCAGTAAACGTCAAATAATTGAAAGACCAAGGGGTTGCCAGCTTACTAGGCT
 GCCTAGACAGGGTGGTATGAGGGGAAGAAAGCCTGCTTCTTCAACAGCATATCC
 AGAAAACAAGGACATTAAACACTAAAAAGTCAGAAGGACAAATTCTCAGAAAAAAAGG

FIGURE 3KKK

ACAGTCCTTAAATGGGTTACATTAGCTTATAAAATGCCCTCTGTATTGTCTAAC
 TTTCTTGGCAAGGTCAAGTGCTGGGTGCCATTGGATTATAAGCCCCGGGTTCTGAA
 [T, C]
 GGTGGGGGAGGGAAACCACAGGAACAAGGGTTAGGGTGAGGAAAAAGAACTCATTAAACCT
 TGGGCCCCTGGTGGAAAGTTAATTATCATGTCTTGCCTGTGGGTGGGTTGAAGTAGGAAC
 GTTAATTCAAAGGCAGTTTCAAATTGGACTTGAATTGTAAATTATCTTGC
 AGTTAGCCACCAAGTCTCTTCTTTCTTTCTTACAGTCTCGCTGTCAACCC
 AGGCTGCAGTGAATGGCGCAACTTGGCTCACTGCAACCTCCGCCTCCAGGTTCAAGC

134893 TAATCTTCTTGAATAAGCAGTTAATTTTTTATTCACTGAACCTGCTGATCATGTCTAAG
 AATGTATCTCCACTAAGTAAAGTCAGTGAATGGTATTACCTGAGTAGAGTTAAAGTAGT
 CCCCCCACCCCTCTATGTGGCACATATGTTCCAAGTCTCCAGTGGATGTGAAACTG
 ATGATAGTACTGAAACCATCTACCTTTTCTGTGCATACATACCTATGTTATATAAA
 GCTTAACCTATAAAATTAGGCATAATATATTGACTCCAGTCCAGTGTAGTGGCTCTG
 [A, C]
 AGACTCACAAATGTATTTGCTTAAAAAATTCTTTTTTTTTGAGACGGAGTTT
 GCTCTTGTGCCAGGCTGGAGTCAGTGGTGCACCTCAGCTACTGCAACCTCCGCCT
 CTTGGGTTCAAGCGATTCTCTGCCTCAGCCTCCAAAGTAGCTGGGATTAGGCATGCA
 CCACACACCCAGCTATTCTATTCTGTAGAAACGGTTTCCATGGTCAGGC
 TGATCTGAACCTCTGACCTCAGGTGATCTGCCTGCCCTCCAAAGTGCTGGGAT

136001 TATTTATTTATTTGAGACACAGTCTTCCGTCGCCAGGCTGGAGTGTGGTGG
 CACGATCTCGGCTCACTGCAACCTCCGCCTCTGGGTTCAAGTGATTCTTGCCCTCAGC
 CTCCGAGTAGCTGGGACCACAGGTGCGCACCAGTGCCTGGCTACTTTTGATTTCA
 GTAGAGACAGGGTTTACCATGTTGGTCAGGCTGATCTCAAGCTCTGACCTCAGGTGAT
 CTGCCCTACCTTAGCCTCCAAAGTGCTGGGATTACAGACATGAGCCACCGCACCCAGCCC
 [C, G]
 CAGTGTAACTCTACATAACAGTGTCACTGTCTAAGTGTGTTGAAAAACTATTTGTC
 ACTAATATGGTACATTATTGTTAACTACACTCAGACTTTTGATTTACCAATT
 TCCCACATGTCCTTTCTGTTTCAGGAATCAATCCGTTGACCATATTGAGTTAGG
 GTGTTTATATTGATGGGACTGGTCTAGTTAGATACTTAGTGAGCTCAGCCACGAGG
 TGGGATCTCATGCCACCGAGGATTGGTATTGTGTTTCTGGTGGTTTATGGCATT
 TTGTTGACATTGTTAACTGTTCAACTAGTAACGTAACTAAATTATGTTTATGGCATT

136249 CTTAGCCTCCAAAGTGTGGGATTACAGACATGAGCCACCGCACCCAGCCCCAGTGT
 AACTCTTACATAACAGTGTCACTGTCTAAGTGTGTTGAAAAACTATTTGTC
 AAAACTAATA
 TTGGTACATTATTGTTAACTACACTTCAAGACTTTTGATTTACCAATTCTCCCACT
 CATGTCCTTTCTGTTTCAGGAATCAATCCGTTGACCATATTGAGTTAGGGTGT
 TATTGATGGGACTGGTCTAGTTAGATACTTAGTGAGCTCAGCCACGGTGGGATC
 [T, G]
 TCATGCCACCGAGGATTGGTATTGTGTTTCTGGTGGTTTATGGCATT
 GCAGAGAGGCATGGTATTAACCTCAGTGTCTCTAGCAAATTCTGTTTACCAAC
 CTCTGATCCCTGCATTATTGCAACTCAACTCAGAGATTGTGATTGAAAACATTGCTGA
 CTCCATGCTTTAAGCTATTCTAACTAGTAACGTAACTAAATTATGTTTATG
 TAGCACTGTTTCTATAAACACATGTTGAGTATTGAAACATTGCTTACTCCATGCT
 CTTAAAGCT

136448 AGGAATCAATCCGTTGACCATATTGCAAGTTAGGGTGTGTTTATTTGATGGGACTGGTCC
 TAGTTTGTGTTTCTGGTGGTTTATGGCATTCCGACTATGCAAGAGAGGCATGGTATT
 AACCTCAGTGTCTCTAGCAAATTCTGTTTCCACCAACCTCTGATCCCTGATT
 TTGCAATCAACTCAGAGATTGTGATTGAAAACATTGCTTACTCCATGCT
 CTTAAAGCT
 TTTCTAACTAGGTAACTGTAACATAAAATTGCTTTATCTAGCACTGTTTCTATAAA
 CACATGTTGAGTATTTCATCAACGAAATACTTCAATCATTAAAGTTCCAAAGTTCA
 TGGATGCTGTTAAATGCCCTGGGTTCCAGGCTGTCGAATATTCTGCTTCTGCAATA
 AGAGATTGTCCTGTTAAAAGCAACATTAGCCTTGTGCGGTTTACCCCCAATTCTC
 TTTCTGTTGTAACCAATGAAAGGAAGTACTGCTTAAACACAGCAGGTAATAATTCTC

136906 GAATATTCTGCTTCTGCAATAAGAGATTGCTCTGTTAAAGCAACATTAGCCTTG
 TCGGGTTTACCCCCAATTCTCTTTCTGTTGTAACCAATGAAAGGAAGTACTGCTT
 AACACAGCAGGTAATAATCTCTAAACTCATTATCTCAAGAGGTGGCTGGCAGGATA
 TATAAAATGCAATTAAAGAAAGGTCTGGCAAATTATGAATGACAGAACTGGGAGTGGCT
 ACCGAGAGAAACTAGGATGCGCCTTGCTTGACACTGAGGTCAAGGCTAGCTTGTAC
 [C, A]
 CTCCGGGCTCTGCTTGGGTTGCTGCAGGCAGCACCCATGAACCAGGCATCTGAC
 CCAGTCCAGGAACTTATTCTCAGCAAGTCGAACACTCTGTGATGAGTGACTGCCAT

FIGURE 3LLL

GCTCATGGGTACCAGGCTCATTATTCTGTTCACTTCCAGCCTCCCACAAGATTGGT
 TTTTCAGCTGTTATTATTATTATCATTATTCAAGGCTGTTCCAAGTTCAAGTGGG
 GGGTTTCTAACCGTACCAAGCTGCCCTGGTTGCAAGTCCGGTATGTTCAAGTCTG

 137190 GGGCTAGCTCTGTACCCCTGGGCTGCCTTGGGGTGCTGCAGGCAGCACCCCA
 TGAAACAGGCATCTGACCCAGTCCAGGATACTTATTCTCCAGCAAGTCGAACACTCTG
 TGATGAGTGACTGCCATGCTCATGGGTACCCAGGCTCTCATTATTCTGTTCACTTCCAG
 CCTCCCACAAGATTGGTTTCAAGCTGTTATTATTATCATTATTCAAGGCTGCT
 TTCAAGTTCAAGTGGGGTTCTAACCGTACCAAGCTGCCCTGGTTGCAAGTCCGG
 [T, C]
 GATGTTCAAGATGCTGGCCGGATTCTGGCTGACCCAGCCTGATCTTCTGGGCTTCAG
 GAAAGCTGAAGCCAATCAGAGCTCCTCTTCAATGCCCTGGGATTATGCTTACCTTGCCT
 GGCATCGTGTACCTGCTCCATCCATGGGAAAGTTTGTGCTGGTACTGTCTTCTATC
 AACATCTTTAAGATATCTTCCCCGAGGCATCGTGTGATGCAACCGAACAGCACATTG
 TACGTTTATGCAAGACTGCCATATCTCAACAGTGAGAAATGCAATGGAAGTGGTGT

 137471 CCTGGTTGCGAGTCCGGTGTGTTCAAGATGCTGGCCGGATTCTGGCTGACCCAGC
 CTGATCTTCTGGGCTTCAGGAAAGCTGAAGCCAATCAGAGCTCCTCTTCAATGCCCTTG
 GGATTATGTTACCTTGGCATCGTGTACCTGCTCCATCCATGGGAAAGTTTGT
 GTCTGGTACTGTCTTCAACATCTTAAAGATATCTTCCCCGAGGCATCGTGTGATGT
 CAACGGAACAGCACACTGTACGTTTATGCAAGACTGCCATATCTCAACAGTGAGAAA
 [T, G]
 GCATAATGGAAGTGGTGTGACCGGATTATTCCTAGGACATTATGGCTAATGCGCTAGAG
 AACTCGGATGGTGTGCGTGTGACATGGGTTCTCTGAGTTGCTTTCTTGC
 TATTCTGAAAGAAACAATTCTGCCACATGATCTGTTTCAAGGTCTCAGCATT
 GTTAGCAGGAAAGTACACTTGTGTTTCTGCCAGTGTACTGAGTGGTCTTCACTGCTGA
 TGAAACGCTGAGATAGTCTTCTCAAATAGGTATGTTGATTGTTGCTGCTTATTG

 137913 CTTGCCACATGATCTGATTTTCAAGGTCTCAGCATTGTTAGCAGAAAGTACACTTTG
 TTTCCATCCGGCAGTGAACAGTGGTGGTCCATGCTGATGAAACGCTGAGATAGTCTC
 TTCCAAATAGGTATGTTTGTGCTGCTGATGGGTTCTCTGAGTTGCTAGTGGCCCTCAATAGTG
 CAATGAAACCTAACGTGTATAATGGGCTGCTAGTAATCTGAGGAAAGACAGTCTTG
 GTTGGGGGATAGGGATTCTGCTACTTAGCTCAGGTGAAAGTCTTACAATTTTG
 [T, C]
 GTGTAGAAATAAGCACCAGTGTACCTCTGGGTTTTCTTTCTTTCTAGTCTTCTAG
 TATGGTCAACAATATTGTTAGGGAGTACCTATTCTGTGCTAACCAGTGGCATTCAAGT
 ATATTACACTATGCTCTTCAAACACTCTGTCAAATGTAAGGATTATTACCCATT
 TACAGATGTGGTTACTGTGTAACCTGGCAAGGTACAGGGCAAGTGAATAAGGGATT
 TGGATTGGGTGGAGGTCTGTGATTCAAAGCCATGCTTTCTACAATACTATATA

 138466 GAGGTCTGTGATTCAAAGCCATGCTTTCTACAATACTATATGCTTGCATA
 AGTTATTGTTATTAGTAAATAATATTGTGATGATGGCAAATAATAAACCATGTCACACTA
 GAGAGTGTAAATCTTAGGTCTTTAAGAACATTGGAATTGCAAGGATTGGATTT
 TTTTTTTTTAAGTGTGGAGTCTTGCCTCTTGCCTCAAACCTGTGG
 GCTCAAGTGTACATCCTCCCTGCTCTCCAAAGTGTGGATTACAGATATGAGCCACC
 [A, G]
 TGCCCAAGCTAGAATTGCAAGGATTGGAAATTGATGATTGATCTGATATTGAAATT
 TACAGTATGTTAAAGTCAATGTCAGGTGCTGGTGTGCTGGCTCATTGATGAAACACATT
 GGGTATGCCCTACCTTCATTGAATTAGAGTCTAAGAGCTAACCGGTCTTGT
 ATAGAGCTGAGTCCTGTTAAATTGCTGACTCTCAAATGGTGGGAAGTTAATGCTTC
 TAGGCTCCCTCACTAGTTACTGAACCACATGTGCTTGAATTGTTGA

 146805 GGCTTTCTAAAGTAGCACTTTCCCCACTCCAGCCATGAAGATACTTTAACAGCT
 CTTGAGATTAAATCCCCCTCCGTGACACTTCTGCTGAGGAACCTGAA
 [G, A]
 AAAGTACTGCATTCCCCACTGGCAAAACTTGCCTACGCCAGTTATGATTCTGCTT
 TTCACACCCATATCTGACCTGAAACAACACATATTCTCCTCTT

 151008 GGATTATTAAACCTCTAAAGTCCATTGAAATAGATATTGCCATGTTGAAAAC
 TGAGGTTAGAGAGGTTAAAGTGAACCTACCCAGTGTACAGAAACTAGTAAGTGGTCAGCT
 GGGATTGAACTGAGATTCCAGAACAAATTGCCATTAAACCAACTTGTCTCCATTAGT
 CATCTGCAAATCTCTCCATAAATTCTCAGTCTTATCTGAGTTCTTATTTCAGG
 AAGGAAAACCTCTGTTTGATCCTTATGAAATACAATTCCATTAAAACCTTTTTT
 [T, -]
 GCTATTAAAAAGGTACCGATAATTGAAACAGACTGGATTGAGCCTGTGTTGATGGA

FIGURE 3MMMM

AGTACACATGGGATGTGGCTGAAGTGTCAATCTAATTTCTTCATCAGCTAATT
TTAAAGTATAAGCAAGTAGATTCTGACACTAACAGGGAGATTTAAATTCTTGAGAG
ACTGGAGGTGTTAAATAATTTCTGGTAGTGACATTTACATCTTAATCTCCCACT
CTCCCACCTCATCTCAATGTACCTGAAGCTCTGGGAATGTTCTTGTACTCTCAGGAA

151627 CATCTCCTCTCCCTCACATCCCTTCTGCTCCAATTACTTCCCAGCGCCACTTGGAT
GTTGTTGTCATCGGGGAACTTGAAACAGCCAGATTTTTGGAGTCTGTAAGCAGAAA
ACAGACTGCTTGTCTCATATCTGGCACCCAGTTGTCCAGAAAACGAGGAGTTAAA
AGAAGTCTGGCTGTGAAGGGCTGTGACAACGTCTAGGGGAGCTAGCGAGCCCTG
GCAGGGCAGTGACTCATGCTGCTGTCACTGGATCAGCACTGGCCCCCTGGCAGGCAGGC
[G, A]
GCAGCCAGGTGGGTTCCAGCCAGAGCACGCACGCCAGGGAGCATGCAGCCTGC
ACTGCGGGGGATGTGATGCTCGGCTAACTCGCCTGGCTGGCCACGGACGCCCTCA
GCTTGCACCATGGTAACGTTCTGGCGGGGACACCCCCGGGAGGCCACCGCGATGGG
AGCCTCTGGTACTGATGGACGAGTGTCCACCTCCAGACCGAGAGCGCTTAGTAGGTC
GGAGGAAGTGGAGAGGATGTAACAGCCCCCAGCCGGAGTGAAGCCCTGAGGAGGTAGG

151875 TGAECTCATGCTCTGCACTGGATCAGCACTGGCCCCCTGGCAGGCAGGCCAGCCA
GGTGGGGTTCCAGCCAGAGCACGCACGCCAGGGAGCATGCAGCCTGCACTGCGG
GGGATGTGATGCTCGGCTAACTCGCCTGGCTGGCCACGGACGCCCTCAGCTTGCA
ACCATGGTAACGTTCTGGCGGGGACACCCCCGGGAGGCCACCGCGATGGCAGCCCTC
TGGTACTGATGGACGAGTGTCCACCTCCAGACCGAGAGCGCTTAGTAGGTCGGAGGAA
[G, C]
TGGAGAGGATGTAACAGCCCCCAGCCGGGAGTGAAGCCCTGAGGAGGTAGGAGCCGAT
ATGTCATCCGTGATCCACCGTCAGCGCAGGGGTGCTGTAGATCACCGGTAGGAA
CTTATTTGGCTGGTGTTCATTATGCTGATTAAACTGCACTGGATTGATGGCATGAT
TGCCTGGGAAGATGCAATAATGAACAAAAAAAGTGGTAATAAGATCTCGG
AGTCGACTTGTCCGGGTATGAATGAAGTAGACTGCACTGGTATCTAACAGGAGTTCCAG

153541 ATCTAACCATCTATGTATCTGCTCTCAAGTGGTGGATGGGGTTGCTATCTGGCTGT
ATAAAGAACCTAAAACCTTGTCTCATAAAGCTAGAGGTTCTGTATGGTTAACTGAG
CTGCAAGTGGCTGAACAGAGCTAAACAGAGAGATGGTGTCTGGCTCTCCAAGTAT
GCTGCAAGTCAAGGATCTGGCAGCTGAGCTCTGAGCTGGTGGAGCGCTGGCAGCCA
GAGAAAGCCCCGTTACTGTGAGCCACCAGGAGGGAGTGTGATGTAGCCAGTCATTGATT
[T, C]
ACAGAAACTGGCTCATAGGGGAAAAAAACAGGAGACTAGAAAATGAAATATAA
TATCACTGAAACCTTGTCTGAGGTCTTCTCCATTCTCATAAAAGCTATTGAAA
AATGCAATTACAGAGCACTTGAATTAGGGCTCAGGGCTCCAGGAGCCTCTGGAAATT
TCTGAAATGCACTGAGCTTGTGGATGTGGAGGTCAGTATCTGCTCATTCTCA
TGATACAATGACATTCTGTTTCAAGGGAGTGAAGTCCCCAGAAGATCTGGACTGATGG

155392 TCTTGTTATGTGTTATTGCTATTGGACTTGGCTACTCTGCTGTAGGCAGCCCTGTGGGTG
ATACCTAACAGCATCTTAAAGAATTGATCCACCTGTTGGATGTAGATGACCCCTGGACA
TATCAGAGTTGATTAATTAGAAATCTAATAAAAGAGAGGGCAGTGTGAAATTACTTAGC
AGCTCTGCACTGGTAAATTGACAAAATTACTGGAGAGAGGGGGAGACATTTCTGGGGG
TACCACTTGTGCCAGCGACCTGTGTTCTCTGAGTTCTTTCTTCACC
[A, G]
TTTCAAGCATCACAGGTTTATTACACACATTGATTACCTGTGCTGTTACTCATTCTT
CACACCACTGAGGAAATTGCACTGCTGTACTGTGCTAGGTAAATTGACCTCAGATT
TGTTACCACTGTAATTGAAATGTTCAAGGGTGGAGCTGAATGAACGAGGAGTTT
TGGAGAAATTGGCAGTGAGAATGTTAAATTCTGTGATAGCTCTCGTTGGGAGTC
CTTATTTGGGACCCAGACTATTAAAGCCATTGAGTCATCATTATTAGGCTGAG

155896 ATTAAATTCTGTGATAGCTCCTCGTTTGGATCCTTATTGGACCCAGACTAT
TTTAAGCCATTGAGTCATCATTATTAGGCTGAGCAAGAATCTGTGACAGCGTTT
CAATGGCTAGGCGTAGTGGAGTTCTGCACTGAGTTGGTGGAGCTGGAGAGTTT
CTAGAGAAACTAGGTTGGTGTCTTGGGGGGTTAGGTGAAATTAGCTGGAGAG
TGAGTAGCTGCTGTGATGCTTCTTCTTAAACCAGCAAGAGGCCAAACCAAATCCCC
[C, A]
AGCTCTGAATGCCTGGCTGTTCTCAGCCTTCTTGCTGAACCTGACAATAGTAGG
GTAGTAACAGGAAACAGCATGTTAAAGTTAAAATAAAATAGATCTCAGCTTTTCC
TTCCCATAGCAAGGGTACATTATTAGGTTCTCTAGATTGAGGCACTGCCTC
ATTTAAGTTCTGGTGAAGCCATGCAATTCTGCAAACCATAGTAAACTCTAGAACGG
GGGTGTCCAATCTTGGCTCCCTGGGCCACATGGGAAGAAGAAGAATTGTCTTGAGGC

FIGURE 3NNNN

157137 TTACTAATACACTAGTCATGTATGTATAGTGTCTCTATAACACACCAAGAGAAATATGG
AAAGGACTCAGCAATGATTAGGTAGTCACGAAAGTCATACCAAGATTGGAAACCAAGCTTCCC
AGGCCCTGGACTTTCTGCTAGAGACACTTCACGGTTCTGACCAACTACAAAGAGTTAA
TATGCAGTTGCCAATACCTGTTGGTAAAAGGTGGATGTTGGGAGGAGTGGATTGGGA
ACAGAATTAGAACGGTCCAGTCCCAGAATGGTACCTCCCCATCAAGTTGAACAAGTCAAA
[G, A]
CAGGTTATGTTGAAACAACACTGAGAGAGAAAGTAAAGCAAACACCAATTGTCAGAATATCAT
GGTACAAATTGGACATCTTGGGAGTTAGCGAGTAAGGCAAATCCAGTGAGGGACGCT
TAATGGGTAATGCCAATTACAATTCTGTTAAATTACATTGCTGATCTCCTTGGAAATG
TCTGTCATTCCCCAAGTAGACTGTGATCTAAGGCAAGGCTGGTCTTATTCTCCTG
GTTTCTGGAGCAGTAATACTTGTGCTGGACTGGGCTTATAAGCATACTAATGGAAA

157409 ACCTTCCCCTCAAGTTGAAACAAGTCAAAACAGGTTATGTTGAAACAACGTGAGAGAGAAAGTA
AAGCAAACACCAATTGTCAGAATATCATGGTACAAATTGGACATCTTGGGAGTTAGCG
GAGTAAGGCAAATCCAGTGAGGGACGCTTAATGGTAATGCCATTACAATTCTGTT
AAATTACATTGCTGATCTCCTTGGAAATGTCGTCATTCCCCAAGTAGACTGTGATCT
CAAGGCAAGGCTGGTCTTATTCTCCTGGTTTCTGGAGCAGTAATACTTGTGCTGG
[G, A]
ACTGGGCTTATAAGCATACTAATGGAAAGTAAAATATTTGGTTGGTTTTAAAAAGAC
AGTGGATTGGATCAGTGGAGAGGAAGGTAGAGGGATTTCAGGTGGCAGGGTGCTAAC
AACAGCCCACCTTACAGGGCACCAACTGTGTTCTAGGCTGTGTTCAACCACCTTACAC
AGATGAATTCAATTAAATTGACAACACCAGCCAAGAGGAAGGTACCTTATTATTCTCAT
TTTGGATGTGAGGAAACTGAGGCGTGGGAGATCAAACAACCTTGCTAAAGTTATGTAGC

164675 ATTTAGAGTAAGTTTCTAGAAAATAGAACGTTGGAAAAAAAAGGAAACCCAAACTTG
GCTTCGTCGCAAGAGACAGCACTGCTGTGTTGGCGGGTGGCTGCGTCACCCGCTG
CTCAGAAGTGCCTTTCTCTCATGGGATAACTGGCTGTGATCCGAGATGTGCCAGG
AGTAGGCAAGCAACGTGTTGGCAGGCTGATGTTCTTTATTAGCATCTCATTGACTG
CATCTCGTCAAGGCCAGAGCATGAACCTGGCTGGTTCTAATATCTACCCGCTTCCC
[T, C]
CTAATTACTCCCCCTGAACCCCTAAAGTGAGGGAGGGAGAGTTGCTTTGTGGGGTGAGCTT
TCCCTGGGGTGGCTGTAACCAACCTGGCATGTTGATGTTCTGGTATCCAGAGCTGTC
CTGGACTCAGGCTTGGAGTCAGCTTCTTAGCACTGAATGCCAGTCATGGATGGAGGT
CACTGTATCTCACATGTTCCGCTCTCCCTTCCATGACCTTGGCCCTCTGAGCCTCT
GTAGCACTTTCTTGAGTGTGTCAGGCCATCTAGCTAAGAAGTAGCAGAAATGGGATT

165157 ACTGTATCTCACATGTTCCGCTCTCCCTTCTCCATGACCTTGGCCCTTGAGCCTCTG
TAGCACTTTCTTGAGTGTGTCAGGCCATCTAGCTAAGAAGTAGCAGAAATGGGATT
GAAGGCACTGACTGTTGGTGTGAAACCAACCTGGCATGTTGATGTTCTGGTATCCAGAGCTGTC
CCCCTGCACAAATCATGTAACGTGGTAGGAGAACATAGAGGTATAGGGCAAGCCCTCC
TTAATGCCATGAATAATACCCATTTAGGATTGTGGGAGGACTCAGTGAAGTAACCC
[G, A]
TGAAGCACTAACACGTGCTGACACGTGCTCAATAATGAGCACTTGTCTGATGACAA
AGGTGCGCATTAAATTCTCTCTTAGGTTGTTACTTCTTGAGGACAGGAATTGTGGC
TCCCTTAATGGCACTGCACTGAGGTTCTCAAGTTGGCACTATTGACATTGGCTGG
ATAATTCTGTTGGGAGCTGTCCTGTGGATTGTTAGGATGTTGAGCAGCATTTGGCC
TCTACCCGCTACATATTAAAGCACCCCTAGTCATGAAAATAAAATGCTAGACATTGCC

165405 ATGAATAATACCCATTTAGGATTGTGGGAGGACTCAGTGAAGTAACCGTGAAAGCA
CTAAACACGTGCTGACACGTGCTCAATAATGAGCACTTGTCTGATGACAAAGGTGCT
GGCCTTAATTCTCTCTTAGGTTGTTACTTCTTGAGGACAGGAATTGTGGCTTCTTA
ATGGCCACTGCACTGAGGTTCTCAAGTTGGCACTATTGACATTGGCTGGATAATT
TTGTTGTGGGAGCTGTCCTGTGGATTGTTAGGATGTTGAGCAGCATTTGGCTCTACCC
[G, A]
CTACATATTAAAGCACCCCTAGTCATGAAAATAAAATGCTAGACATTGCCAAACTGCC
CCTGTTGAGAACCAACTGGCTGCAAGGTATCTCATGGGATCACAGGGCTTTATATT
TCTTCTGTCCTCTCTCCCTCTGGGTGTCCTCTCTCACACACACGCTTGA
GAAGGTGGTAAAAAAATTTGTTGAAGTTGAGAATTGAGAACAAAGGAAAAATT
TGGAAGGCATTAAATGAACAGATAGACTCTGTCCTCATGGTCAACAGAACATT

165500 CACTTGTCTGATGACAAAGGTGGCATTAAATTCTCTCTCTAGGTTGTTACTTCTT
GAGGACAGGAATTGTGGCTTCTTAATGGCACTGCAAGCAGAGTTCTCAAGTTGGCACT
ATTGACATTGGGCTGGATAATTCTGTTGTTGGGAGCTGTCCTGTGGATTGAGGATGT
TGAGCAGCATCTTGGCCTCTACCCGCTACATATTAAAGCACCCCTAGTCATGAAAATA
AAATGTCTAGACATTGCCAAACTGCCCTGTTGAGAACCAACTGGCTGCAAGGTATCTCTC

FIGURE 30000

| | |
|--------|--|
| | [G, A] |
| | TGGGGATCACAGGGCTTTATATTCTCTCTGTCTCTCTCCCTCTGGGTGTC TCTCTCTCACACACACGCTTAGAGAAAGGTGGTAAAAAAAATTGTTGAAGTTGAG AATTGGAGAACAAAGGAAAATTGGAGGCATTAAATGAACAGATAGACTCTGTC CATTCCATGGTCAACAGAATTCAATTAGATAGTTGTTACTGCAACTCTGACCCC ATTGCCCATCATTTAGAGTCCAACCAGTTAGGGATTCTTGCAAACCTTCTAA |
| 165751 | CATTGCCAAACTGCCCTGTTGAGAACCACTGGCTGAGGTATCTCTCATGGGATCAC AGGGCTTATATTCTCTCTGTCTCTCTCCCTCTGGGTGCTCTCTCTC ACACACACGCTTAGAGAAAGGTGGTAAAAAAAATTGTTGAAGTTGAGAATTGGAGA ACAAAGGAAAATTGGAGGCATTAAATGAACAGATAGACTCTGCCCATTCCATGG TCAACAGAATTCAATTAGATAGTTGTTACTGCAACTCTGACCCCATTGCCATC [A, G] TTTAGAGTCCAACCAGTTAGAGGATTCTGCAAACCTTCTAAAGCAGTGATAG TATCAGCTCTTAAATAACTATGTTGATGAAGTGGACTTTGGATAATTGAGA CCAGCGACTTGTGCTTGAAGAGGACAGGGCTATTGGTAATAATATATGAGA ATATGTATGTAATTATTATAATGTAATATACAATAATTGGTGTAACTGGTACT TGAGGCCAGTCTTGTGAAACCTCTCAAGCTATGATTACATTGGTCAATGTTAGA 165877 |
| 165877 | ACGCTTAGAGAACGGTGGTAAAAAAAATTGGTGAAGTTGAGAATTGGAGAACAAAG GAAAAATTGGAGGCATTAAATGAACAGATAGACTCTGCCCATTCCATGGTCAACA GAATTCTATAATTAGATAGTTGTTACTGCAACTCTGACCCCATTGCCATCTTAA GAGTCCAACCAGTTAGAGGATTCTGCAAACCTTCTAAAGCAGTGATAGTATCA GCTTTAAATAACTATGTTGATGAAGTGGACTTTGGATAATTGAGACCAGC [C, A] GACTTGCTGCTTGAAGAGGACAGGGCTATTGGTAATAATATATGATAATTG ATGTAATTATTATAATGTAATATACAATAATTGGTGTAACTGGTACTGGTACTGGGC CAGTCTTGTGAAACCTCTCAAGCTATGTTACATTGGTCAATGTTAGCATAATGC AATTATCAGCAACTTGTGCTTGGTAAAGTCAGAAGGATGGCTAATAAAATTG AGAAAAAGAAAACAGGCCGGTGCAGTGGCTACCCCTGTAATCCCAGCATTGGGAGG 166135 |
| 166135 | TGCTTGATGAAGTGGTACTTTGGATAATTGGAGACCAGCCGACTTGCTGCTTGAAGA GGACAGGGCTATTGGTAATAATATATGATAATTGATGTAATTGTAATTGATA TGTAATATACAATAATTGGTGTAACTGGTACTCTGAGGCCAGTCTTGTGATCGAAC TCTCAAGCTATGTTACATTGGTCAATGTTAGCATAATGCAATTATCAGCAATCACT TGCTGTTGTTGAAAGTCAGAAGGATGGCTAATAAAATTCTAGAAAAGAAAACAGGC [T, C] GGGTGCAGTGGCTACCCCTGTAATCCCAGCACTTGGGAGGCTGAGGCCAGATCAT GAGGTAGGAGATCGAGACCCTGGCCAACATGGTAAACCCATCTGACTAGAATA CAAAAAAAAATTGGTGTGGCGTGGCGCCTGAGTCCCAGCTACTCG GGAGCTGAGTCAGGGGAATCGCTTGAACCCGGGAGGTGGAGGTTGCAGTGAGCCGAGATT GTGCCACTGCACTCCAGCTGGTGAACAGAGTGAAGACTCCGTCTAAACAAAACAAA 166139 |
| 166139 | TGATGAAGTGGTACTTTGGATAATTGGAGACCAGCCGACTTGCTGCTTGAAGAGGAC AGGGCTATTGGTAATAATATATGATAATTGATGTAATTGTAATTGATA ATATACAATAATTGGTGTAACTGGTACTCTGAGGCCAGTCTTGTGATCGAACCTCTC AAGCTATGTTACATTGGTCAATGTTAGCATAATGCAATTATCAGCAATCACTG GGTGTGTTGAAAGTCAGAAGGATGGCTAATAAAATTCTAGAAAAGAAAACAGGCCGG [C, T] GCAGTGGCTACCCCTGTAATCCCAGCACTTGGGAGGCTGAGGCCAGATCATGAGG TCAGGAGATCGAGACCCTGGCCAACATGGTAAACCCATCTGACTAGAATA AAAAAAAATTGGTGTGGCGTGGCGCCTGAGTCCCAGCTACTCGGGAG CTGAGTCAGGGGAATCGCTTGAACCCGGGAGGTGGAGGTTGCAGTGAGCCGAGATTG CACTGCACTCCAGCTGGTGAACAGAGTGAAGACTCCGTCTAAACAAAACAAA 166187 |
| 166187 | CTTGAAGAGGACAGGGCTATTGGTAATAATATATGATAATTGATGTAATT TATTATAATGTAATATACAATAATTGGTGTAACTGGTACTCTGAGGCCAGTCTTGG ATCGAACCTCTCAAGCTATGTTACATTGGTCAATGTTAGCATAATGCAATTATCAG CAATCACTTGTGTTGCTTGAAGTCAGAAGGATGGCTAATAAAATTCTAGAAAAGA AAACAGGCCGGTGCAGTGGCTACCCCTGTAATCCCAGCAGTGGGAGGCTGAGGCC [G, A] CAGATCATGAGGTCAAGGAGATCGAGACCCTGGCCAACATGGTAAACCCATCTG CTAGAATAACAAAAAAAATTGGTGTGGCGTGGTGGCGCCTGAGTCCC GCTACTCGGGAGCTGAGTCAGGGGAATCGCTTGAACCCGGGAGGTGGAGGTTGCAGTG CCGAGATTGTGCACTGCACTCCAGCTGGTGAACAGAGTGAAGACTCCGTCTAAACAAA 166190 |

FIGURE 3 PPPPP

CAAAACAAAACAAAAACAAAAAAGAAAATCTAGAAAAGAAAATAATTGTAATATT
166209 TTGGTAATAATATATGTGATAATATGTATGTAATATTATAATGTAATATAACAATA
ATATTTGGTGAAGTGGACTCTGAGGCCAGTCCTTGATCGAACCTCTCAAGCTATGAT
TTACATTATGGTCAATGTTAGCATATGCATTATCAGCAATCACTTGCTGTTGCTTGA
AAGTCAGAAGGATGGCTAATAAAAATCTTAGAAAAGAAAACAGGCCGGGTGAGTGGCT
CACCCCTGTAATCCCAGCACTTGGGAGGCTGAGGCGGACAGATCATGAGGTAGGAGAT
[C, T]
GAGACCATCCTGGCCAACATGGTGAACCCCCATCTGTACTAGAATAACAAAAAA
AAATTGCTGGCGTGGCGCTGCGCTGTAGTCCCAGTACTCGGGAGCTGAGTCAGG
GGAATCGCTGAACCCGGAGGTGGAGGTTGAGCTGAGCCGAGATTGTCACACTC
CAGCCTGGTGAACAGAGTGAAGACTCCGTCTCAAACAAAACAAAACAAAACAAA
AAAGAAAATCTTAGAAAAGAAAATAATTGTAATATTCTAGAATAATTGTTGGGAGGA
166402 GGCTAATAAAATCTTAGAAAAGAAAACAGGCCGGGTGAGTGGCTACCCCTGTAATC
CCAGCACTTGGGAGGCTGAGGCCAGATCATGAGGTAGGAGATCGAGACCATCCTG
GCCAACATGGTGAACCCCCATCTGTACTAGAATAACAAAAAA
AAATTGCTGGCGTGCCTGTAGTCCCAGTACTCGGGAGCTGAGTCAGGGAAATCGCTTGA
ACCCGGAGGTGGAGGTTGAGCTGAGCCGAGATTGTCACCTCCAGCCTGGTAC
[A, G]
GAGTGAGACTCCGTCTCAAACAAAACAAAACAAAACAAAAAAAGAAAATCTTA
GAAAAAGAAAATAATTGTAATATTCTAGAATAATTGTTGGGAGGATATGTGCTCAA
GAAATATATACTGAGAACTTACCATTTGATGCTAGAGATTGAATTGCCCCATGTCTACATG
AAAATGAATAAGATAAAACATTAAATTGAGCCATGCTATCTGTATTATATTCTT
TTATAGAAATTCTAGGAAATGGTATAATTAACTGAATTATTAACACTGGGACAATAGG
166529 TGGTGAACCCCCATCTGTACTAGAATAACAAAAAA
AAATTGCTGGCGTGGTGGCGTGCCTGTAGTCCCAGTACTCGGGAGCTGAGTC
GCGTGCCTGTAGTCCCAGTACTCGGGAGCTGAGTCAGGGAAATCGCTTGAACCCGGG
AGGTGGAGGTTGAGCCGAGATTGTCCTGCAGTCCAGCCTGGTACAGAGTGA
GACTCCGTCTCAAACAAAACAAAACAAAACAAAAAGAAAATCTTAGAAAAA
GAAAATAATTGTAATATTCTAGAATAATTGTTGGGAGGATATGTGCTCAAGAAATA
[T, C]
ATACTGAGAACTTACATTGATGCTAGAGATTGAATTGCCCCATGTCATGAAATG
AATAGAATAAAACATTAAATTGAGCCATGCTATCTGTATTATATTCTTTATAGA
AATTCTAGGAAATGGTATAATTAACTGAATTATTAACACTGGGACAATAGGCTTAAAT
CATTATCTAATACCTGTACGTTGTTGAAATTCTAGGCCACCACCATTAATTCTAAA
TTGGGTTCTTACTCAAAGAGTGTGAAAGGCAACAGTACCAAAATGGCTGGCCAAATG
166567 AAAAAATTGCTGGCGTGGTGGCGTGCCTGTAGTCCCAGTACTCGGGAGCTGAGTC
AGGGGAATCGCTGAACCCGGAGGTGGAGGTTGAGCTGAGCCGAGATTGTCACGTCA
CTCCAGCCTGGTACAGAGTGAAGACTCCGTCTCAAACAAAACAAAACAAAAAC
AAAAAGAAAATCTTAGAAAAGAAAATAATTGTAATATTCTAGAATAATTGTTGGGAA
GGATATGTGCTCAAGAAATATACTGAGAACTTACCATTTGATGCTAGAGATTGAATT
[G, T]
CCCCATGTCACATGAAAATGAATAAGAATAACATTAAATTGAGCCATGTCATC
TGTATTATATTCTTTATAGAAATTCTAGGAAATGGTATAATTAACTGAATTATTAAC
ACTGGGACAATAGGCTTAACTCATATTCTAATACCTGTACGTTGTTGAAATTCTAG
CCCACCCACATTAATTCTAAATTGGGTTCTTACTCAAAGAGTGTGAAAGGCAACAGT
ACCAAATGGCTGGCCAAATGCTACATGGAACATAATTGCTGGGATGGTCATACAATGA
166951 ATTCTAGGAAATGGTATAATTAACTGAATTATTAACACTGGGACAATAGGCTTAACTC
ATTATCTAATACCTGTACGTTGTTGAAATTCTAGGCCACCCACCATTAATTCTAAAAT
TGGGTTCTTACTCAAAGAGTGTGAAAGGCAACAGTACCAAATGGTCTGGCCAAATGC
TACATGGAACATAATGCTGGGATGGTCATACAATGAGTTTAAGTGGCTAGACCTAA
TCAGAAGCACTTCTTCTAATTAGCACCAGTGGCTTAATCCTTCTGTACATTACAATC
[G, A]
CTCAGCAGCTTAAACAAATGTTGCTTCCCGGGGCCACACTCCACATCTTCTGACTCTC
TGATTTAATTGGTCCGATGGGGCTTACATCAGGTGTTTAAAAGGTCTCAAGTG
ATTCTAATGTGACCTGATTGAGGACCAAGGGAGGTGAGGAAGCCTGATAACCTTAC
TCTCCAGCCTCATCTTCAATCCCATGATTGTTATGGGATTGTCACACACCCAGCT
TAGTCATAGCATTCTTACTCTAGCTTTTTAGATGCAATTATTATTCTTAAAGA
167026 TACGTTGTTTGAATTCTAGGCCACCCACCATTAATTCTAAATTGGGTTCTTACTCAA
AGAGTGTGAAAGGCAACAGTACCAAATGGTCTGGCCAAATGCTACATGGAACAAAT
GCTGGGAGGGTCATACAATGAGTTTAAGTGGCTAGACCCCTAAATCAGAAGCACTTCT

FIGURE 3QQQQ

TCTAATTAGCACCATGGTTCTTAATCCTTCTGTACATTACAATCGCTCAGCAGCTTAAT
 ACAAAATGTTGCTTCCGGGGCACACTCCACATCTTCTGACTCTGTGATTTAATTGGTC
 [C, T]
 GAATGGGGCCTATACATCAGGTGTTTTAAAAGGTCTCAAGTGATTCTAATGTGTACC
 TGCAATTGAGGACCAGGGAAGGTGTAGGAAGGCCTGATAACCTTACTCTCAGCCTCATCC
 TCCAATCCCAGTATTGTTATGGGATTGTTGCTACACACCCAGCTTAGTCATAGCATTCT
 TACTCTAGCTTTTTAGATGCAATTCTTATTCTAAAGAAAAAGATTCTTAG
 CACCTTATTCTAAAGAGCTTAAATTGCTGTGCTAGACTTCAAACAGTGAGCATT

 167086 AGAGTGATGAAAAGGCACCAAGTACCAAAATGGCTGGCCAAAATGCTACATGGAACAAAT
 GCTGGGGATGGTCATACAATGTTTAAAGTGGCTAGACCCCTAAATCAGAACACTTCT
 TCTAATTAGCACCATGGTTCTTAATCCTTCTGTACATTACAATCGCTCAGCAGCTTAAT
 ACAAAATGTTGCTTCCGGGGCACACTCCACATCTTCTGACTCTGTGATTTAATTGGTC
 CGAATGGGGCCTATACATCAGGTGTTTTAAAAGGTCTCAAGTGATTCTAATGTGTAC
 [C, T]
 TGCAATTGAGGACCAGGGAAGGTGTAGGAAGGCCTGATAACCTTACTCTCAGCCTCATCC
 TCCAATCCCAGTATTGTTATGGGATTGTTGCTACACACCCAGCTTAGTCATAGCATTCT
 TACTCTAGCTTTTTAGATGCAATTCTTATTCTAAAGAAAAAGATTCTTAG
 CACCTTATTCTAAAGAGCTTAAATTGCTGTGCTAGACTTCAAACAGTGAGCATT
 GTCAAACATAGAATAGCAGAATGAAGGGTTGGACCTCGGGTGAGGAGGGCTGTCGATG

 167517 TTTTTTAGATGCAATTCTTATTCTAAAGAAAAAGATTCTTAGCACCTTATT
 CTAAAGAGCTTAAATTGCTGTGCTAGAACTTCAAACAGTGAGCATTGTCAAACATA
 GAATAGCAGAATGAAGGGTTGGACCTCGGGTGAGGAGGGCTGTCGATGGTCTTTCG
 AGTGCCTGGGGCTGGGGCTGCACATCTCTCGTTCTGGGCCATTGATAAGTGACCTA
 AAAGTGCCCTTCTGTTTTGGTGGGGGTGAAAAAGCAATCTGTTGTACCCACAGC
 [G, A]
 GTGCACTTAAACAGGAAGCCACTGGGGCCAGCCTTATGTGTCAATTAGTTTCA
 CGCCACATCCTACCTATCATCATGCACCCATGTCATCGTTCTTAAAGGGTGCAGTT
 TTGCTTAAGCACAAGGAGCTGTGACCTGTGTTGTCATCCTGATGTCATGTCATGT
 GACTTCATGACATGTGGGTGACTTTGATCTGAAGGACCAGGGACCCAGTGTGGAT
 CACCACTCTCCGTGGGTGGTTGGTCTTGTCTAGCCCACCCAGCCAGGTGCAAT

 167552 AAAAGATTCTTAGCACCTTATTCTAAAGAGCTTAAATTGCTGTGCTAGAACTTCT
 AAACAGTGAGCATTGTCAAACATAGAATAGCAGAATGAAGGGTTGGACCTCGGGTGAG
 GAGGGCTGTCGATGGCTCTTCGAGTGCCTGGGGCTGCACATCTCTCGT
 TCTGGGCCATTGATAAGTGACCTAAAGTGCTTCTGGGGGTGAAAAAGCAATCTG
 AAGCAATCTGTTTGTACCCACAGCGGTGCACTTAAACAGGAAGCCACTGGGCCAG
 [G, C]
 CTTCTATGTCATTAAGTTTACGCCACATCCTACCTATCATCATGCACCCATGTCA
 TCGTTCTTAAAGGGTGCAGTTTGTCTTAAGCACAAGGAGCTGTGACCTGTGTTGT
 CATCCCTGATGTCATGTCATGTGACCTCATGACATGTGGGTGACTTTGATCTGA
 AGGACCAGGGACCCAGTGTGGATCACCCTCTCCGTGGGTGGTTGGTCTTGT
 TCTAGCCCACCCAGCCAGGTGCAATTAGGAATAAGGAATAGCAAAGGAATTGCTCA

 167775 TTTGGTGGGGGTGAAAAAGCAATCTGTTTGACCCACAGCGGTGCACTTAAACAGGA
 AGCCCTACTGGGGCCAGCCTTCTATGTGTCATTAAGTTTTCAGGCCACATCCTACCTAT
 CATCATGCACCCATGTCATGTTCTTAAAGGGTGCAGTTTGTCTTAAGCACAAGG
 AGCTGTGACCTGTGTTGTCATCCCTGATGTCATGTGACCTCATGACATGTGG
 GTGACTTTGATCTGAAGGACCAGGGACCCAGTGTGGATCACCCTCTCCGTGG
 [C, G]
 TGGTTGGGTCTGTTCTAGCCCACCCAGCCAGGTGCAATTAGGAATAAGGAATAG
 CAAAGGAATTCTGTCAGGCCATGCCAAGCATTCTCATATGAAAAGGAAAAGAGA
 GAGAGTGTGTGTTGGCTAGATTAGGTAGAAAACAGGCTGGTGAGAAGCGTAGAAC
 TTGGTAAATTCTAGCCAAAGTAAGATTAAAGGATTTATTCTGGATCCAATC
 CCTGTTGCCATTCTATGAATAATCACCATTGTTTAATGTGAATAATAGCACACAGC

 167876 CACGCCACATCCTACCTATCATCATGCACCCATGTCATGTTCTTAAAGGGTGCAGT
 TTTTGCTTAAGCACAAGGAGCTGTGACCTGTGTTGTCATCCCTGATGTCATGTCAT
 GTGACTTCATGACATGTGGGTGACTTTGATCTGTCATGTCAGGACCCAGTGTGG
 ATCACCACTCTCCGTGGGTGGTTGGTCTTGTCTAGCCCACCCAGCCAGGTGCA
 ATTAGGAATAAGGAATAGCAAAGGAATTGCTCAAGGCCATGCCAAGCATTCT
 [C, T]
 ATATGAAAAGGAAGAGAGAGAGAGTGTGTGTTGGCTAGATTAGGTAGAAAACAGG
 CTGGTGAGAAGCGTAGAACTGGTTAAATTCTAGCCAAAGTAAGATTAAAAAGA

FIGURE 3RRRR

TTTATTTCTGGATCCAATCCCTGTTGCCCATTTCTATGAATAATCACCAATTGTTTAAT
GTGAATAATAGCACACAGCAAATTCAAGCCCCCTGAGTTTACCATTTAAGCAATTGCTT
TAGGCCCGTGAAGGCATGTACTATTATGAAGTTGATGGTAGTAATGGAAAACACAACA

172530 GGTTTCGGAGGCTACTTGAGATGTGATTGCTCTAATGAACCTCCACGGGCTTTTAAC
CTGTCGATGTGTTATTCAAGATGGAGCAGGAAATGACCCGGTTACATCGGAGAGTGTCA
GAGGTGGAGGCTGTGCTTAGTCAGAAGGAGGTGGAGCTGAAGGCCTCTGAGACTCAGAGA
TCCCTCCTGGAGCAGGACCTGCTACCTACATCACAGAATGCACTGTGAGCCTCCCTGA
AGCCCCCTTCCCTGGAGGTGGCACTTCCTGTTGTTGTCATCCTGTTCATGATG
[A, G]
CTCCATGAGGCACATCACAGCCAATGGCAGAGTAGAGAGAGGGAGAGCACAAAAGCAA
GATCTGTGTTTGAGAGTAGTGAGAGCCAGGCAGGCTAAGGTCCCAAGAAATGAGATTGGA
CTCATTTCCAGCAGAAAGTCAGGTAGACGGCTGGTACCATGGAGTCTGGAGATGGAGT
AATTATCCTTGCGCAAGTTGCAAAAGATCTAACATCTCCCACATCCCAGCCTCTGTT
CTGCGTTGTTGACATGAGCAGCCTGAGAACCAACTATGTACAAGAAAA

172714 TCCCTGGAGCAGGACCTGCTACCTACATCACAGAATGCACTGTGAGCCTCCCTGAAGCC
CCCTTCCCTGGAGGTTGCACTTCCTGTTGTTGTCATCCTGTTCATGATGACTC
CATGAGGCACATCACAGCCAATGGCAGAGTAGAGAGAGGGAGAGCACAAAAGCAAAGAT
CTGTGTTTGAGAGTAGTGAGAGCCAGGCAGGCTAAGGTCCCAAGAAATGAGATTGACTC
ATTTCAGCAGAAAGTCAGGTAGACGGCTGGTACCATGGAGTCTGGAGATGGAGTAAT
[T, C]
CATCTTGGCGCAAGTTGCAAAAGATCTAACATCTCCCACATCCCAGCCTCTGTTGCTGC
GTTGTGTCGACATGAGCAGCCTGAGAACCAACTCCCAACTATGTACAAGAAAACCTA
CTTTCAATCTCTGACATCAAATTTCATTGGCCAGAACCACTGTAGTGACAAGAAAA
TAGCCTTGGAAAACCCAGACCCCTGTCATTATTACATGTGACTTTCATTTCATTTC
CTTCACAAGAGTAGACTGTTCTCTCCATTGTTAAATTTCATTCAAGGTGTT

173811 TGATTCTCCTGCCCTAGCCTCCCGAGTAGCTGGGACTACAGGCATGCACCAACATGCCCA
GCTAATTTTGTATTAGTAAAGACGGGTTTCAACATGTTGCCAGGGTGGTCTCGA
TCTCTGACCTTGATCCGCTGCTCGGCCCTCCAAAGTGTGCTGGGATTACAGGTGTGA
GCCACTGTGCCAGCCATAAAATCAAATTTCAGCAATTGTTATACAAGTGGAAACCT
TAATCTCAAATGCAATTGTCAGTGCTGGCTTAATGTCGCTGTTGTCAGAAACCATG
[C, T]
GAATGGAGTAGATCCCAGGTTATAAGGAGCCCCAGGGAGGATGCGCGAGTCACTGGCT
TCTCCAGGGGCTCTGGTTGGGTTGCCTGGTGTGCTGGCACACTCCCTGGAGATTAA
CTGGACCAGCCTGAGGCCCTTGGGCTCTGTGCAAGATGCTCTACTCTGACTTGCTAGA
GCTTTCTCTAATTCTGGACTAAAGCAAGCAGGAGTTGGAGGATGATGGTGAGAATT
ACATCCCCGAGTTGGCTTTGGAATGCACTGAGTAGTTGTGAGATTAGTGTAAAAAGAA

173812 GATTCTCCTGCCCTAGCCTCCCGAGTAGCTGGGACTACAGGCATGCACCAACATGCCAG
CTAATTGGTATTAGTAAAGACGGGTTTCAACATGTTGCCAGGGTGGTCTCGAT
CTCTGACCTTGATCCGCTGCTCGGCCCTCCAAAGTGTGCTGGGATTACAGGTGTGA
CCACTGTGCCAGCCATAAAATCAAATTTCAGCAATTGTTATACAAGTGGAAACCT
ACTCTCAAATGCAATTGTCAGTGCTGGCTTAATGTCGCTGTTGTCAGAAACCATG
[C, T, G]
AATGGAGTAGATCCCAGGTTATAAGGAGCCCCAGGGAGGATGCGCGAGTCACTGGCTT
CTCCAGGGGCTCTGGTTGGGTTGCCTGGTGTGCTGGCACACTCCCTGGAGATTAC
TGGACCAGCCTGAGGCCCTTGGGCTCTGTGCAAGATGCTCTACTCTGACTTGCTAGAG
CTTTCTCTAATTCTGGACTAAAGCAAGCAGGAGTTGGAGGATGATGGTGAGAATTCA
CATCCCCGAGTTGGCTTTGGAATGCACTGAGTAGTTGTGAGATTAGTGTAAAAAGAA

Chromosome map:
Chromosome 12

FIGURE 3SSSS